MME Form 9
Rev. Mar. 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
GEOLOGICAL SURVEY

OFFICIAL DOCKET FILE

Contract No. 14-23- _____ Docket No. MME- 6522

Application
- [ ] Denied
- [x] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

52615

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, SEP 26 1966

ASSAYED FOR

Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3684 | 0.12 | 0.3 | | | | | | | |
| 3685 | 0.02 | 0.2 | | | | | | | |
| 3686 | 0.02 | 0.4 | | | | | | | |
| 3687 | 0.06 | 0.2 | | | | | | | |
| 3688 | 0.08 | 0.4 | Trace | | | | | | |
| 3689 | Trace | Trace | Trace | | | | | | |
| 3690 | 0.04 | 2.0 | 1.4 | | | | | | |
| 3691 | Trace | 0.2 | Trace | | | | | | |
| 3692 | Trace | 0.2 | None | | | | | | |
| 3693 | Trace | 0.2 | None | | | | | | |
| 3694 | Trace | 0.3 | Trace | | | | | | |
| 3695 | Trace | 0.2 | Trace | | | | | | |

*Gold not deducted

Charges $62.00

GOODALL BROS.

By Horace Hand

Recd. 10/6/66
Letter 10/3/66

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, SEP 21 1966

ASSAYED FOR

Janus Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | INSOL. Per Cent | ~~XXXXX Per Cent~~ Pb oz/ton | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| 3676 | Trace | 0.6 | | None | | | None Found | | |
| 3678 | 0.04 | 0.6 | | | | | | | |
| 3679 | 0.04 | 0.4 | | | | | | | |
| 3680 | 0.04 | 0.2 | | | | | | | |
| 3681 | 0.49 | 0.6 | | | | | | | |
| 3682 | 0.04 | 0.4 | | | | | | | |
| 3683 | Trace | 0.4 | | | | | | | |

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana SEP 18 1900

ASSAYED FOR
Janus Mining Co.

Head Sample ☒
Control Assay ☐
Umpire Assay ☐

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3657 | 0.32 | 2.0 | | | | | | | |
| 8 | 0.03 | 0.3 | | | | | | | |
| 9 | 0.02 | 0.3 | 0.3 | | | | | | |
| 60 | 0.22 | 1.3 | 0.2 | | | | | | |
| 1 | 0.06 | 0.8 | 0.2 | | | | | | |
| 2 | 0.26 | 2.0 | 0.2 | | | | | | |
| 3 | Trace | 0.3 | Trace | | | | | | |
| 4 | 0.02 | 0.2 | Trace | | | | | | |
| 5 | Trace | 0.2 | | | | | | | |
| 6 | Trace | 0.2 | | | | | | | |
| 7 | Trace | 0.3 | | | | | | | |
| 8 | Trace | 0.2 | | | | | | | |
| 9 | Trace | 0.2 | | | | | | | |
| 70 | Trace | 0.2 | | | | | | | |
| 1 | Trace | 0.2 | | | | | | | |
| 2 | Trace | 0.2 | | | | | | | |
| 3 | Trace | 0.1 | | | | | | | |
| 4 | Trace | 0.2 | | Trace | | | | | |
| 5 | Trace | 0.2 | | | | | | | |

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 997
HELENA, MONTANA 59601

Helena, Montana, AUG 9 1966

ASSAYED FOR
James Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | INSOL. Per Cent | Per Cent | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| 3637 | 0.06 | 0.2 | | | | | | | |
| 3638 | 0.04 | 0.2 | Trace | | | | | | |
| 3639 | 0.02 | 0.2 | None | | | | | | |
| 3640 | 0.02 | 0.2 | None | | | | | | |
| 3641 | 0.01 | 0.1 | Trace | | | | | | |
| 3642 | 1.50 | 0.7 | | | | | | | |
| 3643 | 0.08 | 0.6 | Trace | | | | | | |
| No Tag | 0.04 | 0.4 | None | | | | | | |

*Gold not deducted

Charges $43.00

GOODALL BROS.
By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HANG, OWNER MANAGER
RES. PHONE 406/442-0606

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana, JUL 27 1966

ASSAYED FOR
Jamus Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3620 | 0.01 | 0.2 | | | | | | | |
| 3621 | Trace | Trace | | | | | | | |
| 3622 | 0.20 | Trace | | | | | | | |
| 3623 | Trace | 0.2 | | | | | | | |
| 3624 | 0.02 | 0.2 | | | | | | | |
| 3625 | 0.16 | 0.5 | | | | | | | |
| 3626 | 0.14 | 0.5 | | | | | | | |
| 3627 | 0.02 | Trace | | | | | | | |
| 3628 | 0.01 | Trace | | | | | | | |
| 3629 | Trace | 0.4 | | | | | | | |
| 3630 | Trace | 0.2 | | | | | | | |
| X | Trace | 0.2 | | | | | | | |

*Gold not deducted

Charge $42.00

GOODALL BROS.

By Horace Hang

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, JUL 22 1966

ASSAYED FOR
Janus Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3400 | Trace | 0.2 | | | | | | | |
| 3616 | 0.01 | 0.2 | | | | | | | |
| 3617 | Trace | Trace | | | | | | | |
| 3618 | 0.02 | 0.4 | | | | | | | |
| 3619 | 0.16 | 1.1 | | | | | | | |

*Gold not deducted

Charges $17.50

GOODALL BROS.
By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0006

PHONE 406/442-0770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana JUL 14 1966

ASSAYED FOR

Jones Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | NICKEL Per Cent | Per Cent | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| 3607 | 0.05 | 0.4 | | | | | | | |
| 3608 | 0.12 | 0.5 | | | | | | | |
| 3609 | 0.14 | 0.7 | | | | | | | |
| 3610 | 0.08 | 0.4 | | | | | | | |

*Gold not detected

Charges $14.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0694

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana JUL 8 - 1966

ASSAYED FOR

Jamna Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3391 | 0.58 | 0.3 | None | None | | | | | |
| 3392 | Trace | Trace | ~~None~~ | | | | | | |
| 3393 | 0.02 | 0.1 | | | | | | | |
| 3394 | 0.06 | 0.2 | | | | | | | |
| 3395 | 0.06 | 0.1 | None | | | | | | |
| 3396 | 0.06 | 0.2 | None | | | | | | |
| 3397 | Trace | Trace | None | None | | | | | |
| 3398 | 0.06 | 0.1 | | | | | | | |
| 3399 | Trace | Trace | | | | | | | |

*Gold not deducted

Charges $ 46.50

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0006

PHONE 406/442-0770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana JUN 9 - 1966

ASSAYED FOR

Jayne Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3385 | 0.24 | 0.2 | Trace | None | None | | | | |

*Gold not determined

Charges $11.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

[illegible], OWNER MANAGER
RES. PHONE [illegible]

PHONE 406/442-5770
46 SOUTH MAIN ST.
P. O. BOX 597
HELENA, MONTANA 59601

Helena, Montana, JUN 7 - 1966

ASSAYER'S TAG

## HAND SAMPLE

[illegible] Mining Co.

| DESCRIPTION | GOLD OZ. PER TON | SILVER OZ. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | NICKEL PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3376 | 0.04 | Trace | | | | | | | |
| 3377 | 0.04 | Trace | | | | | | | |
| 3378 | 0.04 | Trace | | | | | | | |
| 3379 | 0.46 | 2.2 | None | None | None | | | | |
| 3380 | 0.02 | Trace | | | | | | | |
| 3381 | 0.02 | Trace | | | | | | | |
| 3382 | 0.64 | Trace | | | | | | | |
| 3383 | Trace | Trace | | | | | | | |

[illegible]
Assay $ 35.50

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0604

PHONE 406/442-3779
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAY 24 1966

## HAND SAMPLE

ASSAYED FOR

James Mining Co.

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3374 | 0.12 | 1.5 | 1.2 | | None | | | | |
| 3375 | 0.07 | Trace | None | | None | | | | |

*Gold not detected

Charges $ 17.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-6604

PHONE 406/442-5770
46 SOUTH MAIN ST.
P. O. BOX 587
HELENA, MONTANA 59601

Helena, Montana, MAY 1 2 1986

ASSAYED FOR
Jessie Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Oz. PER TON | SILVER Oz. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | NICKEL PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3345 | 0.04 | Trace | | | | | | | |
| 6 | 0.36 | 1.1 | | | | | | | |
| 7 | 0.02 | Trace | | | | | | | |
| 8 | Trace | Trace | | | | | | | |
| 9 | 0.02 | Trace | | | | | | | |
| 58 | Trace | Trace | | | | | | | |
| 9 | Trace | 0.1 | | | | | | | |
| 60 | Trace | Trace | | | | | | | |
| 1 | 0.01 | Trace | | | | | | | |
| 2 | 0.10 | 0.1 | | | | | | | |
| 3 | 0.08 | Trace | | | | | | | |

*Gold not detected

Charge $38.50

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0646

PHONE 406/442-3770
43 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAY 10 1986

ASSAYED FOR

Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS PER TON | SILVER OZS PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3342 | Trace | Trace | | | | | | | |
| 3 | 0.02 | 0.2 | | | | | | | |
| 4 | Trace | Trace | | | | | | | |
| 50 | Trace | Trace | | | | | | | |
| 1 | Trace | Trace | | | | | | | |
| 2 | Trace | Trace | | | | | | | |
| 3 | Trace | Trace | | | | | | | |
| 4 | Trace | Trace | | | | | | | |
| 5 | 0.08 | 0.4 | | | | | | | |
| 6 | 0.02 | 0.4 | | | | | | | |
| 7 | 0.15 | 0.2 | | | | | | | |

*Gold not deducted

Charges $ 38.50

GOODALL BROS.

By [illegible]

# GOODALL BROTHERS

ESTABLISHED 1909

**ASSAYERS**

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAY 6 - 1986

ASSAYED FOR

Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS PER TON | SILVER OZS PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | IN-SOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 3331 | Trace | Trace | | | | | | |
| 3 | Trace | Trace | | | | | | |
| 4 | 1.06 | 0.4 | | | | | | |
| 5 | Trace | Trace | | | | | | |
| 6 | 0.02 | Trace | | | | | | |
| 7 | 0.06 | 0.2 | | | | | | |
| 8 | Trace | Trace | | | | | | |
| 9 | Trace | 0.2 | | | | | | |
| 40 | 0.04 | 0.2 | | | | | | |
| 1 | Trace | Trace | | | | | | |

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By [signature]

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, APR 16 1966

ASSAYED FOR
Janus Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 3364 | Trace | Trace | | | | | | | |
| 5 | Trace | Trace | | | | | | | |
| 6 | 0.24 | 0.2 | | | | | | | |
| 7 | Trace | Trace | None | None | Sent out for Spec. Exam | | | | |
| 8 | Trace | 0.1 | | None | | | | | |
| 9 | Trace | Trace | | | | | | | |
| 70 | 0.20 | Trace | | | | | | | |
| 1 | Trace | Trace | | | | | | | |
| 2 | Trace | Trace | None | None | 0.1 | Sent out for Spec. Exam. | | | |
| 3 | 0.03 | Trace | | | | | | | |

*Gold not deducted

Charges $71.50

GOODALL BROS.

By Horace Hand

XERO COPY XERO COPY XERO COPY XERO COPY

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana APR 7 - 1966

ASSAYED FOR
Janus Mining Co.

Hand Sample ☒
Control Assay ☐
Umpire Assay ☐

| DESCRIPTION | GOLD OZS PER TON | SILVER OZS PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 776 | Trace | Trace | | | | | | |
| 7 | Repeating | | | | | | | |
| 8 | Trace | Trace | | | | | | |
| 9 | Trace | Trace | | None | | | | |
| 80 | Trace | Trace | | | | | | |
| 1 | Trace | Trace | | | | | | |
| 2 | Trace | Trace | | | | | | |
| 3 | Trace | Trace | | | | | | |
| 4 | Trace | Trace | | | | | | |
| 5 | Trace | Trace | | | | | | |
| 6 | Trace | Trace | | | | | | |
| 7 | Trace | Trace | | None | | | | |
| 8 | Trace | Trace | | None | | | | |
| 9 | 0.12 | Trace | | | | | | |
| 90 | Trace | Trace | | | | | | |
| 1 | Trace | Trace | | | | | | |

# GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAR 21 1966

ASSAYED FOR

Janna Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | Pt ~~WOLFRAM~~ ~~PER CENT~~ oz/ton | Ni ~~ZINCER~~ PER CENT | $WO_3$ ~~ZINC~~ PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 736 | 0.76 | 0.5 | Nil | None | | | | |
| 737 | 0.40 | Trace | Nil | None | | | | |
| 738 | 0.40 | 0.4 | Nil | None | | | | |
| 739 | 2944.49 | 1330.9 | | | | | | |
| 740 | 179.13 | 18.1 | 18.69 | None | | | | |
| 741 | 23.39 | 3.3 | 0.94 | | | | | |
| 742 | 28.57 | 5.5 | 0.32 | | | | | |
| 743 | 6.96 | 1.9 | | | None | | | |
| 744 | Trace | Trace | Nil | None | | | | |

*Gold not deducted

Charges $ 98.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, AUG 31 1965

ASSAYED FOR

Jamus Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 714 | Trace | 0.4 | | 17.4 | | | | |
| 715 | Trace | Trace | | 5.0 | | | | |
| 716 | Trace | Trace | | | | | | |
| 717 | Trace | Trace | | Trace | | | | |
| 718 | Trace | Trace | | | | | | |
| 719 | Trace | Trace | | Trace | | | | |
| 720 | Trace | Trace | | | | | | |
| 723 | Trace | Trace | | | | | | |
| 724 | Trace | Trace | | | | | | |

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 **ASSAYERS**

HORACE HAND, OWNER MANAGER
RES. PHONE 442-6606

PHONE 442-2770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, AUG 24 1965

ASSAYED FOR

Samis Mining Co.

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 712 | Trace | 0.2 | | 1.71 | | | | | |
| 713 | Trace | 0.2 | | None | | | | | |

*Gold not deducted

Charges $ 10.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0564

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 587

Helena, Montana, AUG 10 1965

ASSAYED FOR

A. J. Katchas

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| 706 | 0.02 | Trace | | 1.0 | | | | | |
| 707 | Trace | Trace | | | | | | | |
| 708 | 0.06 | Trace | | | | | | | |
| 709 | Trace | Trace | | | | | | | |
| 710 | Trace | Trace | | | | | | | |
| 711 | 0.04 | 1.4 | | | | | | | |

*Gold not deducted

Charges $ 20.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0004

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 997

Helena, Montana JUN 23 1965

ASSAYED FOR

K. J. Ketchum

[redacted]

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | NICKEL Per Cent | Per Cent | Per Cent |
|---|---|---|---|---|---|---|---|---|
| 431 | 0.08 | 0.7 | | | | | | |
| 2 | 0.07 | 0.4 | | | | | | |
| 3 | 0.26 | 1.0 | | | | | | |
| 4 | 0.32 | 2.5 | | | | | | |
| 5 | 0.14 | 1.6 | | | | | | |
| 6 | 1.88 | 2.8 | | | | | | |
| 7 | 0.06 | Trace | | | | | | |
| 8 | Trace | 0.1 | | | | | | |
| 9 | 0.16 | 0.7 | | | | | | |
| 40 | 0.08 | 0.6 | | | | | | |
| 1 | Trace | Trace | | | | | | |
| 2 | Trace | Trace | | | | | | |
| 3 | Trace | 0.3 | | | | | | |
| 4 | 0.08 | 0.6 | | | | | | |
| 5 | 0.20 | 2.2 | | | | | | |
| 6 | 0.13 | 0.4 | | | | | | |
| 7 | 0.08 | 0.8 | | | | | | |
| 8 | Trace | 0.2 | | | | | | |
| 9 | Trace | 0.2 | | | | | | |
| 50 | Trace | 0.2 | | | | | | |
| 701 | Trace | 0.2 | | | | | | |
| 2 | Trace | 0.3 | | | | | | |
| 3 | Trace | 0.3 | | | | | | |
| 4 | Trace | 0.2 | | | | | | |
| 5 | 0.05 | 0.9 | | | | | | |

Charges $25.00

Goodall Brothers

by Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-6604

PHONE 442-5770
46 SOUTH MAIN ST.
P. O. BOX 237

Helena, Montana, MAY 19 1965

ASSAYED FOR

A. J. Katchas

**HAND SAMPLE**

| DESCRIPTION | | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nelly Ely | TR-55 | Trace | Trace | | | | | | | |
| | -56 | Trace | 0.2 | | | | | | | |
| | -57 | 0.12 | 0.5 | | | | | | | |
| | -58 | 0.01 | 0.2 | | | | | | | |
| | -59 | 0.07 | 0.2 | | | | | | | |
| | -60 | Trace | 0.2 | | | | | | | |
| | -61 | 0.08 | 0.2 | | | | | | | |
| | -62 | 0.10 | 0.1 | | | | | | | |
| | T2-1 | 0.08 | 0.6 | | | | | | | |

*Gold not deducted

Charges $ 27.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0686

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana APR 30 1965

ASSAYED FOR

A. J. Katches

Hand Sample ☒
Control Assay ☐
Umpire Assay ☐

| DESCRIPTION | | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|---|
| Nelly Bly | TR-1 | Trace | Trace | | | | | | |
| | -2 | Trace | 0.2 | | | | | | |
| | -3 | Trace | 0.2 | | | | | | |
| | -4 | Trace | 0.2 | | | | | | |
| | -5 | Trace | 0.1 | | | | | | |
| | -6 | Trace | 0.2 | | | | | | |
| | -10 | 0.01 | 0.2 | | | | | | |
| | -11 | Trace | 0.1 | | | | | | |
| | -12 | 0.02 | Trace | | | | | | |
| | -13 | Trace | 0.1 | | | | | | |
| | -14 | Trace | 0.2 | | | | | | |
| | -15 | Trace | Trace | | | | | | |
| | -16 | Trace | 0.1 | | | | | | |
| | -17 | Trace | 0.2 | | | | | | |
| | -18 | Trace | 0.2 | | | | | | |
| | -19 | Trace | 0.2 | | | | | | |
| | -20 | Trace | 0.2 | | | | | | |
| | -50 | Trace | 0.1 | | | | | | |
| | -51 | 0.12 | 0.1 | | | | | | |
| | -52 | 0.16 | 0.5 | | | | | | |
| | -100 | Trace | 0.2 | | | | | | |
| | T-1, V-1 | 0.14 | 0.9 | | | | | | |

Charges $66.00 87.00 Paid

GOODALL BROTHERS

by Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, APR 2 8 1965

ASSAYED FOR

. J. Katches

## HAND SAMPLE

| DESCRIPTION | | | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hellie Bly | Shaft "A" | D-1 | 0.02 | 0.3 | | | | | | | |
| | "B" | D-2 | 0.04 | 0.4 | | | | | | | |
| | "C" | D-3 | 0.03 | 0.6 | | | | | | | |
| | Tunnel #2 | D-4 | 0.03 | 0.7 | | | | | | | |
| | Shaft "C" | D-5 | 0.08 | 0.8 | | | | | | | |
| | | D-6 | 0.52 | 6.5 | | | | | | | |
| | Shaft "B" | V-1 | 5.74 | 94.9 | | | | | | | |

*Gold not deducted

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 837

Helena, Montana, JAN 19 1965

ASSAYED FOR

A. J. Katches

**HAND SAMPLE**

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| NB-1 | 0.06 | 0.8 | | | | | | | |
| -2 | 0.30 | 1.3 | | | | | | | |
| P-45 | 0.23 | 1.6 | | | | | | | |
| -46 | Trace | Trace | | | | | | | |

*Gold not deducted

Charges, $[illegible]

GOODALL BROS.

By [illegible]

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 587

Helena, Montana, NOV 13 1964

ASSAYED FOR

A. J. Katches

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| Perry | 0.08 | 1.4 | | | | | Silica | | |
| P-40 | 0.50 | 2.9 | | | | | 91.32 | | |
| -41 | 0.03 | 0.6 | | | | | | | |

*Gold not deducted

Charges $13.50

GOODALL BROS.

By [signature]

XERO COPY XERO COPY XERO COPY XERO COPY

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana OCT 16 1964

ASSAYED FOR

J. Katches

Hand Sample ☑
Control Assay ☐
Umpire Assay ☐

| DESCRIPTION | GOLD OZ. PER TON | SILVER OZ. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| P-20 | 0.03 | 0.8 | | | | | | |
| -21 | Trace | 0.2 | | | | | | |
| -22 | 0.12 | 0.9 | | | | | | |
| -23 | 0.16 | 0.9 | | | | | | |
| -25 | Trace | Trace | | | | | | |
| -26 | 0.01 | Trace | | | | | | |
| -30 | 0.04 | 0.4 | | | | | | |
| -31 | 0.04 | 0.1 | | | | | | |
| -32 | Trace | Trace | | | | | | |
| -34 | Trace | 0.1 | | | | | | |
| -35 | Trace | Trace | | | | | | |

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, OCT 8 - 1964

ASSAYED FOR

A. J. Katches

**HAND SAMPLE**

| DESCRIPTION | | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|---|
| Pahasapa | 1 | Trace | Trace | | | | | | |
| | 2 | 0.11 | 2.3 | | | | | | |
| | 3 | Trace | 0.4 | | | | | | |
| | 4 | Trace | Trace | | | | | | |
| | 5 | Trace | 0.1 | | | | | | |
| | 6 | Trace | 0.2 | | | | | | |
| | 7 | Trace | 0.2 | | | | | | |
| | 8 | Trace | 0.1 | | | | | | |

*Gold not deducted

Charges $ 24.00

GOODALL BROS.

By

# GOODALL BROTHERS

ESTABLISHED 1909

**ASSAYERS**

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana SEP 24 1984

ASSAYED FOR

A. J. Katches

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| Winetka 1 | 3.14 | 22.9 | | | | | | | |
| MCG-OC #1 | 0.88 | 0.8 | | | | | | | |
| -INC #1 | 0.30 | 30.3 | | | | | | | |
| -T 1 | Trace | 0.3 | | | | | | | |
| -T2 | 0.16 | 0.3 | | | | | | | |
| -P2FF | 0.36 | 1.4 | | | | | | | |
| -P3F | 0.18 | 0.9 | | | | | | | |

*Gold not deducted

Charges $21.00 Paid

GOODALL BROS.

By

# GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana SEP 16 1964

ASSAYED FOR

A. J. Katches

## HAND SAMPLE

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| MCG-P1 | 0.09 | 0.3 | | | | | | | |
| -P2F | 0.18 | 1.1 | | | | | | | |
| -P2L | 0.07 | 0.4 | | | | | | | |
| -P3 | 0.16 | 0.9 | | | | | | | |
| -P4 | Trace | 0.2 | | | | | | | |
| -P5 | 0.05 | 0.4 | | | | | | | |
| S2-1 | Trace | 0.3 | | | | | | | |
| -2 | 0.03 | 0.2 | | | | | | | |
| -3 | Trace | 0.2 | | | | | | | |
| S3-12 | 1.28 | 19.0 | | | | | | | |
| -13 | 0.10 | 0.5 | | | | | | | |

*Gold not deducted

Charges $33.00 Paid

GOODALL BROS.

By

# GOODALL BROTHERS

ESTABLISHED 1909

**ASSAYERS**

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana AUG 31 1964

ASSAYED FOR

A. J. Katchea

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT | |
|---|---|---|---|---|---|---|---|---|---|
| T-4 | 1.82 | 198.8 | | | | | | | |
| S3-6 | Trace | 0.8 | | | | | | | |
| 7 | Trace | Trace | | | | | | | |
| 8 | Trace | Trace | | | | | | | |
| 9 | Trace | Trace | | | | | | | |
| 10 | Trace | 0.1 | | | | | | | |
| 11 | Trace | Trace | | | | | | | |

*Gold not deducted

Charges $ 21.00 Paid

GOODALL BROS.

By [illegible]

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana AUG 20 1964

ASSAYED FOR

A. J. Katches

## HAND SAMPLE

| DESCRIPTION | GOLD OZS. PER TON | SILVER OZS. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| S3-#3 | Trace | 0.1 | | | | | | |
| 4 | 0.01 | 0.1 | | | | | | |
| 5 | Trace | 0.3 | | | | | | |
| T-#1 | Trace | 0.3 | | | | | | |
| 2 | Trace | 0.4 | | | | | | |
| 3 | Trace | 0.3 | | | | | | |
| T2-#1 | 0.26 | 0.8 | | | | | | |
| MCG-#1 | 0.06 | 1.6 | | | | | | |
| 2 | 0.38 | 2.1 | | | | | | |
| 3 | 0.08 | 0.6 | | | | | | |

*Gold not deducted

Charges $ ~~XXXX~~ 30.00 Paid

GOODALL BROS.

By [illegible]

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

OFFICIAL
COPY
O. M. E.
RECEIVED
NOV 23 1965
INITIALS | CODE

November 18, 1965

Director of Office of Minerals Exploration
Department of the Interior
Washington, D. C.

Dear Sir:

I respectfully submit the four attached applications of Janus Mining Company, a corporation, organized under the laws of Montana, for financial assistance in exploration for mineral reserves of silver and gold.

We feel that we have properties worthy of exploration in accordance with the Government policy. We have had the assistance of a highly qualified geologist and an experienced mining engineer and mine development and production superintendent. These men, without qualification, feel that our proposed exploration program will develop significant silver and gold ore deposits which can be profitably mined.

The mineral deposits which we seek to explore with Government financial assistance are located in an area containing a great many mineralized structures. The development as proposed in our application will undoubtedly stimulate development of part of the adjoining region and should further the Government's objective in granting mineral exploration loans.

We would appreciate immediate consideration and approval.

Yours very truly,

A. J. Katches

A. J. Katches

AJK/m

# TABLE OF CONTENTS

## APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION


| | Page |
|---|---|
| 1. FINANCIAL ELIGIBILITY | 1 |
| 2. APPLICANT'S RIGHTS IN LAND | 1-3 |
| 3. PHYSICAL DESCRIPTION | 3-4 |
| 4. ACCESSIBILITY OF PROPERTY | 4-5 |
| 5. EXPLORATION WORK | 5 |
| 6. EXPERIENCE | 5-6 |
| 7. ESTIMATE OF COSTS | 6-9 |


## appendix


1. Refusal of loans by Financial Institutions
2. Lease of patented claims in Nellie Bly Group
3. Lease of patented claims in Janus Group


## POCKET ENVELOPE


1. Maps

MME Form 40
Jan. 65

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY O.M.E. RECEIVED NOV 23 1965 CONFIDENTIAL

# APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

JANUS MINING COMPANY
Virginia City, Montana

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6522

DATE RECEIVED: 11/23/65

REGION: I

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Montana

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

| NAME | ADDRESS | TITLE |
|---|---|---|
| Alvin B. Seibert, | St. Louis, Missouri, | President |
| A. J. Katches, | Virginia City, Montana | Vice President |
| Fred W. Hoffman, | Riverton, Wyoming, | Secretary-Treas. |
| A. J. Katches, | Virginia City, Montana, | General Manager |
| R. G. Ingersoll, Jr., | Butte, Montana | Geologist |
| Walter H. Myers, | Virginia City, Montana | Mine Supt. |
| H. A. Bolinger, Jr. | Bozeman, Montana, | Attorney |
| John J. Kelly, | Bozeman, Montana | C.P.A. |

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Silver and gold

ESTIMATED COST OF PROJECT: $ 159,565.60

| PROPERTY NAME | LOCATION COUNTY | STATE |
|---|---|---|
| Nellie Bly Group | Madison | Montana |

## GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME Field Office.*

## CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

November 18, 1965
DATED

Alvin B. Seibert
BY *(Signature)*

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

## INFORMATION REQUIRED WITH THIS APPLICATION

### 1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

### 2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

### 3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

### 4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

### 5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

### 6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

### 7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C

1. FINANCIAL ELIGIBILITY:

(a) Janus Mining Company has discussed the subject of a loan with the First National Bank in Bozeman, Bozeman, Montana, our bank of account; Security Bank & Trust Company of Bozeman, Bozeman, Montana; The Bank of St. Louis, Security Trust Company, Mercantile Trust Company, all of St. Louis, Missouri, and we have been advised in general that this type of financing mainly pertaining to mineral exploration for mineral reserves would not be granted. True copies of the correspondence to the relative banks are enclosed in the appendix.

(b) Not applicable.

(c) That the officers of the company agree to finance their share of the exploration costs, and assignments of royalty given and agreed to be given to various and sundry persons on all properties owned by the company and not held under lease to the extent of not to exceed 7% of the gross smelter returns. The assignments of this royalty have been given to secure operating capital and moneys to finance the company's participation for the government loan.

2. APPLICANT'S RIGHTS IN LAND:

(a) and (b)

COMMON NAME OF GROUP - NELLIE BLY *

Nellie Bly, Alder Fraction, Prescot and Malta Lodes designated by the Surveyor General as Survey No. 9722 embracing a portion of Township 7 South, Range 3 West, M.P.M., in the Highland Unorganized Mining District, for a more particular description of which reference is made to page 115, Book 145, Records of Madison County, Montana.

The above claim is under lease dated June 9, 1965, from A.. J. Katches, Lessor, to Janus Mining Company, Lessee. Minimum royalty- $1,000.00 paid in advance to June 9, 1966. Lessor to pay 10% net smelter returns after deducting payment of minimum royalty. True copy of the lease enclosed in the appendix.

COMMON NAME OF GROUP - JANUS

Highland Lode (Patented) Mining Claim, designated by the Surveyor General as Lot No. 7295, embracing a portion of Township 7 South, Range 3 West, M.P.M., Highland Unorganized Mining District, Madison County, Montana, and containing 20 acres, more or less, for a more particular description of which reference is made to page 635, Book 64, Records of Madison County, Montana.

The above patented claim held under lease dated August 9, 1965, between Lowell M. Paige, et al, Lessors, to Janus Mining Company, Lessee. Minimum royalty paid in advance - $300.00 a year to August 9, 1966, and annually thereafter. Royalty 12½% net smelter returns after deducting minimum royalty. True copy of lease enclosed in the appendix.

The following unpatented mining claims are owned by Janus Mining Company upon which all location and annual representation work has been done as required to September 1, 1965, and additional work, labor and improvements and benefit has been done in connection with all of the claims and is being performed continuously at this time.

COMMON NAME OF GROUP - JANUS

The unpatented lode mining claims situated in Section 1, Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Janus Lode Mining Claim, Book 211 of Locations, page 11;
Janus No. 1 Mining Claim, Book 211 of Locations, page 13;
Janus No. 2 Mining Claim, Book 211 of Locations, page 15;
Janus No. 3 Mining Claim, Book 211 of Locations, page 17;
Janus No. 4 Mining Claim, Book 211 of Locations, page 19;
Giltedge Mining Claim, Book 211 of Locations, page 297;
Giltedge No. 1 Mining Claim, Book 211 of Locations, page 299;
Giltedge No. 2 Mining Claim, Book 211 of Locations, page 301;
Giltedge No. 3 Mining Claim, Book 211 of Locations, page 423;

COMMON NAME OF GROUP - NELLIE BLY *

The unpatented lode mining claim situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Book and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Desiree Lode Mining Claim, Book 211 of Locations, page 35.

COMMON NAME OF GROUP - TERRA COTTA

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M..P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Silver Cable Lode Mining Claim, Book 211 of Locations, page 23;
Silver Cable No. 1 Lode Mining Claim, Book 211 of Locations, page 25;
Terra Cotta Lode Mining Claim, Book 211 of Locations, page 31;
Terra Cotta No. 1 Lode Mining Claim, Book 211 of Locations, page 33;

COMMON NAME OF GROUP - SIDEBOARD

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Sideboard Lode Mining Claim, Book 211 of Locations, page 27;
Sideboard No. 1 Lode Mining Claim, Book 211 of Locations, page 29;

COMMON NAME OF GROUP - LATCHSTRING

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Latchstring Mining Claim, Book 211 of Locations, page 321;
Latchstring No. 1 Mining Claim, Book 211 of Locations, page 323;
Latchstring No. 2 Mining Claim, Book 211 of Locations, page 419;
Latchstring No. 3 Mining Claim, Book 211 of Locations, page 421;
Greybache Mining Claim, Book 211 of Locations, page 413;
Greybache No.. 1 Mining Claim, Book 211 of Locations, page 415;
Greybache No. 2 Mining Claim, Book 211 of Locations, page 417;

PATENTED PLACER MINING CLAIMS

Lot 46, Mining Survey No. 515, Mineral Entry No. 397, Placer;
The South ten (10) acres of Mining Survey No. 517, Mineral Entry No. 460, Placer;
Lot 55, Mining Survey No. 1267, Mineral Entry No. 1001, Hungry Hollow Placer;
Mineral Entry No. 3188

NOTE: Map of Alder Gulch Area enclosed in pocket for further description of location of properties.

* This is property applicable to this application.

(c) All of the properties above described are free and clear of any liens or encumbrances except for assignments of royalty given and agreed to be given to various and sundry persons on all properties owned by the company and not held under lease to the extent of not to exceed 7% of the gross smelter returns. The assignments of this royalty has been given to secure operating capital and moneys to finance the company's participation with a government loan.

3. PHYSICAL DESCRIPTION:

(a) Old work on the Nellie Bly Group of claims consists of a number of pits, shafts, and adits on the Nellie Bly vein together with a small amount of stoping. The enclosed long section of the Nellie Bly vein shows these workings. They are now only partially open. The Alder Frantion and Malta veins have both been cursorily examined by pits and short adits, now caved.

(b) None.

(c) Incomplete production figures of ore shipments from the Nellie Bly claim

to the Anaconda Reduction Works, Anaconda, Montana, show that the most recent shipments -- in 1941 --totaled only 80 tons. Total production records can undoubtedly be checked at the Anaconda Company smelter.

(d) Ore reserves on Janus Mining Company property must be estimated from local and regional mining and exploration information. Some of the accessible old workings on the Nellie Bly vein show mineralized structures over five feet wide. Proposed exploration by the Janus Mining Company on the Nellie Bly Group of claims entails crosscuts totalling 1890 feet plus 800 feet of drifting on the Nellie Bly vein several hundred feet under present old work. It is estimated that one-half of this drift will be in ore and that a block 400 feet long, 400 feet deep, and five feet wide will be developed. Using a factor of 12 cubic feet to the ton, this block will yield 66,667 tons. The proposed exploration will also crosscut the Malta vein twice and the Alder Fraction vein once. Each of these vein exposures will be further explored if the initial look at the vein, through crosscutting, is satisfactory.

The average grade for the Virginia City mining district is 6.81 ounces of silver per ton and 0.41 ounces of gold per ton. The grade of the 80 tons shipped from the Nellie Bly vein was 2.2 ounces silver and 0.82 ounces gold per ton. This ration, of 2.7 silver to 1 gold, is expected to increase with the increased depth of the proposed exploration.

(e) The geologic setting of this group of claims is the Pre-Cambrian Cherry Creek series which consists of quartz-feldspar gneiss, quartz-mica schist, crystalline limestone, quartzite, and hornblende-biotite schist. Fissure veins in the general Alder Gulch area are of two types; lenses of quartz in strong, gouge-filled fissures which, when closely spaced form large ore bodies. These lenses pinch and swell and are generally from zero to ten feet wide, although zones 40 feet wide are known. The second type of fissure vein is a narrow, tabular type of quartz-filled tension fracture, three to five feet in width--although ten feet is known. The Nellie Bly vein has strong clays defining the structure quartz lenses. The mineralogy of the vein is probably free silver and gold, and probably sulfides of these metals.

(f) Underground exploration of the Nellie Bly Group of claims of the Janus Mining Company should reveal substantial reserves of siliceous silver-gold ore. The enclosed map of the Alder Gulch area shows numerous ore-bearing structures extending for thousands of feet, exploited by a series of adjoining claims. The Nellie Bly vein structure is similar to the other veins in the Alder Gulch area and should, through development, show persistence of structure and strong mineralization.

(g) Three sets of this application and necessary maps are submitted.

4. ACCESSIBILITY OF PROPERTY:

(a) Mr. Walter H. Myers, Mine Superintendent, Virginia City, Montana, and A. J. Katches, Vice President and Manager, Virginia City, Montana, will aid OME representative who may examine the property. The property is accessible by good road and is located in Alder Gulch approximately three miles south of Virginia City, Montana.

(b) The shipping point on the Northern Pacific Railway Company is Alder, Montana, a distance of approximately nine miles on a hard-surface road from Virginia City, Montana. The quoted cost for shipping from Alder, Montana, to Anaconda, Montana, is $2.70 per ton for the type of ore to be mined at an average value of less than $50.00 per ton.

5. EXPLORATION WORK:

(a) The proposed exploration of the Nellie Bly Group of claims consists of cross-cuts aggragating 1890 feet, driven to cut the Malta, Alder Fraction, and Nellie Bly veins, and a drift 800 feet long to explore the Nellie Bly vein structure for potential ore shoots (see enclosed plan map, cross-section, and long section). The plan map shows the portal of the adit in relation to the claim corners of the property owned by the Janus Mining Company. Size of the proposed adit will be eight feet by seven feet.

(b) All roads have been constructed and are serviceable, and are being maintained by the company.

(c) Should an OME contract be completed, work will start immediately and as soon as the necessary equipment is installed, which should not take more than 30 days. We estimate that 12 foot advance per day will be made by working two shifts and drilling and blasting a six foot round on each shift. The 2690 feet of proposed development work will be completed in approximately 225 working days, or approximately 9 months.

6. EXPERIENCE:

Experience and qualifications of A. J. Katches, Vice President and General Manager, are:

Minneapolis Honeywell Corp., Brown Instrument Division - Special training-title: Electronics Engineer - design, application and operations industrial controls - steel mill and chemical plant operations.

Graco Corp., - lubricating equipment manufacturing - 425 employees - title: Ass't Chief Engineer - design and manufacturing.

Scott-Atwater Mfg Co., -OB motors and metal products manufacturing - 1600 employees - title: Supt of Mfg and metals fabrication engineer.

U.S.A., Frankford Arsenal - design and manufacturing military ammunition - 1 of 5 men selected from industry for special training manufacturing military ammunition - planning and operations ammunition plants event war - title: Manufacturing Military Ammunition Expert.

Twin Cities Ordnance Plant - small arms ammunition mfg - 30, 45, and 50 cal. - title: Supt of Mfg - Chief Engineer, development 50 cal steel cartridge case - member various War Dept small arms ammunition divisions - TCOP 27,000 employees.

U.S.A Shell and Bomb Loading Plant - powder amanufacturing and loading -

title: Supt of Manufacturing - 1900 employees.

Brown & Bigelow Corp., War Production Div., - mfg bomb fuses - 2100 employees- title: Supt of Manufacturing.

U.S. Steel Corp., American Steel & Wire Division, mfg steel - title: Divisional Eng. - confidential engineering reports re: steel mill operations to top management, 13 plants - U.S. Steel negotiator CIO Union contract.

After 1948 has served as mining engineer for various companies as an employee, part owner or officer including:

Mid-Continent Exploration Company - partner and chief engineer.
Great Western Chemical Mining Corp - Director and President.
Spa Laboratories Foundation - Director of Mining & Manufacturing.

Has been familar with the properties involved in the application several years prior to 1963, and has devoted time exclusively to study and possible development of properties from fall of 1963.

Experience and qualifications of Walter H. Myers, Mine Superintendent, are: Worked for Anaconda Company as mining engineer for 18 years commencing 1925. After 1944, employed as general manager of U.S. Grant Mining Company, Alameda Mine, Bamboo Chief Mine, and Easton-Pacific Mine, near Virginia City, Montana; Was a member of the American Institute of Mining and Metallurgical Engineers and Montana Society of Engineers until 1950.

7. ESTIMATE OF COSTS:

| | | Detail | SUBJECT TO OME Participation |
|---|---|---|---|
| (a) Independent Contracts | $ | None | $ None |
| (b) Personal Services | | ) | |
| Supervision ) | | ) | |
| Consultants ) | | ) | |
| Geological ) | $750.00 per month | ) | |
| Engineering ) | | ) | |
| 4 Miners at $21.00 per day, $31.50 for sixth day | | ) | |
| 2 Motorman and dump workers at $21.00 per day, $31.50 for sixth day | | ) | |
| Employment would be continuous and the services are available | | ) | Note 1* |
| (c) Operating Materials and Supplies (General Estimate) | | | |
| Railroad: | | | |
| Rail - 33 Ton at 300.00 | | 9,900.00 | |
| Track bolts - 600 pounds at 30.94 cwt | | 185.64 | |
| Track spikes - 800 pounds at 21.23 cwt | | 169.84 | |

7. Estimate of Costs (continued)

SUBJECT TO OME

| | $ Detail | Participation |
|---|---|---|
| Track splices - 384 pair at 1.60 | 614.40 | |
| **Tools:** | | |
| Pipe wrenches 24" - 6 at 8.75 | 52.50 | |
| Pipe wrenches 18" - 6 at 5.55 | 33.30 | |
| Mine axes - 8 at 7.00 | 56.00 | |
| Mine Saws - 2 at 12.50 | 25.00 | |
| Mine Picks - 12 at 3.92 | 47.04 | |
| Pinch Bars - 4 at 3.50 | 14.00 | |
| Shovels - 12 at 4.47 | 53.64 | |
| Bit knocker - 2 at 8.63 | 17.26 | |
| Drill bits - 560 at 4.80 | 2,688.00 | |
| **Explosives:** | | |
| Powder - 12 Ton at 300.00 | 3,600.00 | |
| Blasting caps - 110 boxes at 3.30 | 363.00 | |
| Fuse - 40 (3000 foot) rolls at 46.65 | 1,866.00 | |
| **Supplies and Timber:** | | |
| Nails - 400 pounds 60 d at 13.22 cwt | 52.88 | |
| Nails - 400 pounds 40 d at 13.22 cwt | 52.88 | |
| Water Tank | 30.00 | |
| Drill steel - 140 (6 foot) pieces at 18.25 | 2,555.00 | |
| Timber - 78,000 board feet at 65.00 per M | 5,070.00 | |
| **Hose, Tubing, Pipe and Fittings:** | | |
| Air Hose - 300 feet at 5/49 | 164.70 | |
| Water Hose - 300 feet at 2.456 | 73.68 | |
| Knox valves - 10 at 4.35 | 43.50 | |
| Ventilation tubing - 2,285 feet at 1.35 | 3,084.75 | |
| Air speed connections - 12 at .98 | 11.76 | |
| Dixon hose couplings 1" - 12 at 2.94 | 35.28 | |
| Dixon hose couplings ½" - 12 at 2.22 | 26.64 | |
| Pipe 2" iron - 3000 feet at 55.13 per 100 feet | 1,653.90 | |
| Pipe 1" iron - 3000 feet at 25.52 per 100 feet | 765.60 | |
| | 33,306.19 | Note 1* |

(d) Operating Equipment

7. Estimate of Costs (continued)

| | Detail | SUBJECT TO OME Participation |
|---|---|---|
| Compressor - new electric Atlas Copco | $ 11,000.00 | $ 11,000.00 |
| Air receiver - used | 150.00 | - |
| Tram motor - battery operated | 23,680.00 | 23,680.00 |
| Eimco rocker shovel | 4,250.00 | 4,250.00 |
| Mine cars - 3 Grandby 57 cubic foot at 400.00 | 1,200.00 | 1,200.00 |
| Blower fan - TM8 | 790.00 | - |
| Rock drill - JR 38C Jackleg | 1,280.00 | 1,280.00 |
| Chain Saw | 154.00 | - |
| Mine lamps - 7 MSA | 268.00 | - |
| Timber truck | 400.00 | - |
| Rail bender | 285.00 | - |
| Dump Block | 250.00 | - |
| | 60) 43,707.00 | Note 2 ** |
| | 7,284.50 | |
| (e) Initial Rehabilitation and Repairs | 2190 None | 2,75 None |

(f) New Buildings, Fixtures, Installations

The property will have the following facilities in which OME participation is not being requested:

Conpressor building
Tool house
Change house
Timber and track storage
Ore bin
Toilet facility
Timber shop

(g) Miscellaneous

Repairs will consist of replacement of worn parts on rock drill, replacement of cables, chains and valve springs for Eimco shovel, valves and other parts for compressor and repairs on truck

Estimate 1,125.00 Note 1*

Accounting and payroll taxes are included in estimated cost per foot

Estimated costs Per Foot
Labor 13.60

7. Estimate of Costs (continued)

| | | Detail | SUBJECT TO OME Participation |
|---|---|---|---|
| Supervision, Geology and Engineering | $ | 3.00 | |
| Payroll taxes and industrial accident insurance | | 2.30 | |
| Railroad - 40 pound rails | | | |
| Rails | 4.20 | | |
| Track spikes | .30 | | |
| Track bolts | .15 | | |
| Track splices | .15 | | |
| Ties | .30 | 5.10 | |
| Air line (2") and water line (1") | | .97 | |
| Explosives | | | |
| Powder | 3.50 | | |
| Blasting caps | .06 | | |
| Fuse | .28 | 3.84 | |
| Compressed air | | 1.15 | |
| Ventilation tubing | | 1.56 | |
| Fuel (fan motor) | | .10 | |
| Drill steel | | 2.64 | |
| Drill bits | | 1.95 | |
| Repairs (compressor, rock drill, shovel) | | .26 | |
| Pipe fittings | | .12 | |
| Waste dump upkeep | | .25 | |
| Water supply | | .10 | |
| Accounting | | 1.40 | |
| Truck expense | | .40 | |
| Miscellaneous | | .50 | |
| Cost per foot untimbered | | 39.24 | |
| Timber per foot | | 9.00 | |
| Cost per foot timbered | | 48.24 | |
| 1290 feet underground untimbered at 39.24 | | 50,619.60 | 50,619.60 |
| 1400 feet underground timbered at 48.24 | | 67,536.00 | 67,536.00 |
| | | | 118,155.60 |
| TOTAL | | | $ 159,565.60 |

Note 1*:

Cost included in computation of estimated cost per foot.

Note 2**:

Operating equipment-the value of major items of equipment which are included for OME participation is equal to $18.12 per foot on this property.

# APPENDIX

JANUS MINING COMPANY
Virginia City, Montana

October 29, 1965

First National Bank in Bozeman
Bozeman, Montana

Attention: Mr. C. L. Newland

Dear Mr. Newland:

I would appreciate an acknowledgment and reply relative to a loan to the Janus Mining Company in the amount of $75,000.00, which funds are needed to carry on certain mineral exploration programs as discussed in detail with you on several occasions.

I will appreciate an early reply.

Yours very truly,

JANUS MINING COMPANY

By A. J. Katches
A. J. Katches, Vice President and
General Manager.

AJK/clt

XERO COPY XERO COPY XERO COPY XERO COPY

1ST NATIONAL BANK
IN BOZEMAN
AFFILIATED WITH FIRST BANK STOCK CORPORATION

C. L. NEWLAND
CASHIER

Bozeman, Montana

November 15, 1965

A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: Loan Request

Dear Mr. Katches:

In regard to our conversation of July 23rd, this letter is to inform you that our bank does not participate in the type of financing which we were visiting about. This is mainly financing pertaining to exploration for mineral reserves or speculation mining interest.

The $75,000.00 loan request will have to be refused because it is not our bank policy to make such loans. Also it might be well to mention at this time that we feel that with the high loan demand we must take care of our normal customers who have operated in the Valley for a number of years.

I regret the refusal of your loan at this time but as stated above it is not our policy to make loans in the mining or exploration for mineral fields.

Yours very truly,

C. L. Newland

C. L. Newland
Cashier

CLN/ca

XERO COPY XERO COPY XERO COPY XERO COPY

JANUS MINING COMPANY
Virginia City, Montana

October 29, 1965

Security Bank & Trust Company
of Bozeman
Bozeman, Montana

Attention: Mr. Philip R. Sandquist

Dear Mr. Sandquist:

I would appreciate an acknowledgment and reply relative to a loan to the Janus Mining Company in the amount of $75,000.00, which funds are needed to carry on certain mineral exploration programs as discussed in detail with you on several occasions.

I will appreciate an early reply.

Yours very truly,

JANUS MINING COMPANY

By A. J. Katches
A. J. Katches, Vice President and
General Manager.

AJK/clt

XERO COPY XERO COPY XERO COPY XERO COPY

SECURITY BANK
& Trust Company • BOZEMAN, MONTANA
Phone 586-5466
PHIL SANDQUIST, Executive Vice President

November 16, 1965

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: Loan Request

Dear Mr. Katches:

In regard to your letter of October 29th, 1965, this letter is to inform you that our bank does not participate in financing pertaining to exploration for mineral reserves or speculation mining interest.

The $75,000.00 loan request will have to be refused because it is not our bank policy to make such loans.

I regret the refusal, but it is not our policy to make loans in the mining or exploration for mineral fields.

Yours very truly,

Philip R. Sandquist
Executive Vice President

PRS/rsb

XERO COPY XERO COPY XERO COPY XERO COPY

GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. L. John Gable, Vice President
Security Trust Company
706 Locust Street
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

DIRECT PRESSURE BAKED MATS • R. O. P. COLOR MATS • STEROTYPE • PLASTIC AND RUBBER PLATES • PROOFS • MAILING

XERO COPY XERO COPY XERO COPY XERO COPY

# SECURITY TRUST COMPANY

EIGHTH AND LOCUST STREETS • SAINT LOUIS, MISSOURI 63177

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

Thank you for presenting the Janus Mining Company loan request to Security Trust even though I am sorry to report that we are unable to grant the loan.

Hoping you might again have an opportunity to request our services and thanking you again for the above.

Sincerely,

L. John Gable
Vice President

LJG/mkf

Bank with Security...we like to serve you!

XERO COPY XERO COPY XERO COPY XERO COPY

GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. E. E. Fincke, Vice President
Mercantile Trust Company
8th & Locust Streets
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

DIRECT PRESSURE BAKED MATS • R. O. P. COLOR MATS • STEROTYPE • PLASTIC AND RUBBER PLATES • PROOFS • MAILING

XERO COPY XERO COPY XERO COPY XERO COPY

# MERCANTILE TRUST COMPANY

NATIONAL ASSOCIATION

SAINT LOUIS, MISSOURI 63166, CENTRAL 1-3500

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

After reviewing your application for a loan to the Janus Mining Company, we have concluded that we are not interested in favorably entertaining your request at this time.

You have our best wishes for success and perhaps we will have another opportunity to review your banking needs.

Sincerely,

E. E. Fincke
Vice President

EEF:fc

XERO COPY XERO COPY XERO COPY XERO COPY

GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. Paul P. Keim, Vice President
Bank of St. Louis
Ninth & Washington Ave.
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

DIRECT PRE BAKED MATS • R. O. P. COLOR MATS • STEROTYPE • PLASTIC AND RUBBER PLATES • PROOFS • MAILING

XERO COPY XERO COPY XERO COPY XERO COPY

OFFICERS
PRESTON ESTEP
CHAIRMAN OF THE BOARD
JACK G. BUTLER
PRESIDENT
DANIEL S. HAPKE
VICE PRESIDENT, SECRETARY, GENERAL COUNSEL
J. W. DORHAUER
VICE PRESIDENT
LEWIS L. HOLLAND
VICE PRESIDENT
PAUL P. KEIM
VICE PRESIDENT TRUST OFFICER
OTTO E. KEY
VICE PRESIDENT
CHARLES M. LILES
VICE PRESIDENT
MINARD T. MACCARTHY
VICE PRESIDENT
JACK W. MINTON
VICE PRESIDENT
WILLARD J. NICHOLS
VICE PRESIDENT
JOHN C. SEILER
VICE PRESIDENT ASSISTANT CASHIER
EARL W. WEAVER
VICE PRESIDENT
LEO H. KUEPER, JR.
GENERAL AUDITOR
JOSEPH A. TROCHTA
ASSISTANT VICE PRESIDENT CASHIER
MATT O. REBB
ASSISTANT VICE PRESIDENT ASSISTANT CASHIER
WILSON T. BELL
ASSISTANT VICE PRESIDENT
DONALD MENKE
ASSISTANT VICE PRESIDENT
JAMES O'FLYNN
ASSISTANT VICE PRESIDENT
RAYMOND OTT
ASSISTANT VICE PRESIDENT
FRANCIS H. PHELAN
ASSISTANT VICE PRESIDENT
EUGENE POELKER
ASSISTANT VICE PRESIDENT
HARRY L. BELL
ASSISTANT CASHIER ASSISTANT SECRETARY
LAWRENCE B. BLESCH
ASSISTANT CASHIER ASSISTANT TRUST OFFICER
EARL A. BLANKENMEISTER
ASSISTANT CASHIER
WILLARD GASSER
ASSISTANT CASHIER
J. R. LYNCH
ASSISTANT CASHIER
DONALD NAERT
ASSISTANT CASHIER
HAROLD G. RATHMANN
ASSISTANT CASHIER
GEORGE PFLUEGER, JR.
ACCOUNTING OFFICER
FRANK KUSSMAN
ASSISTANT ACCOUNTING OFFICER
FRED TUBBESING
ASSISTANT TRUST OFFICER
HERBERT S. HEIL
MANAGER, SAFE DEPOSIT DEPARTMENT

# Bank of St. Louis

NINTH AND WASHINGTON AVENUE
Saint Louis 66, Mo.

GARFIELD 1-1850

BOARD MEMBERS
JOHN C. BAINE
PRESIDENT, TRANSIT SERVICES CORP. OF METROPOLITAN ST. LOUIS
HARTLEY G. BANKS
PRES. COLUMBIA SAVINGS BANK
W. H. BIXBY
G. H. WALKER & CO.
PERCY S. BLOCK
FRANK C. BLUMEYER
PRES. ST. LOUIS INSURANCE CORP.
WALTER E. BURTELOW
PRESIDENT JEFFERSON-GRAVOIS BANK OF ST. LOUIS
JACK G. BUTLER
PRESIDENT
PRESTON ESTEP
CHAIRMAN OF THE BOARD PRES. TRANSIT CASUALTY CO.
LEO A. FISHER
INVESTOR
MARTIN HAUSER
PRES. LITCHFIELD CREAMERY COMPANY
F. GUY HITT
CHAIRMAN OF THE BOARD BANK OF BENTON BANK OF ZIEGLER
ROSCOE C. HOBBS
VICE-PRES. HOBBS-WESTERN CO.
PAUL B. JAMISON
EDW. D. JONES
EDW. D. JONES & CO
JOHN F. KREY
PRESIDENT KREY PACKING COMPANY
MARTIN LAMMERT IV
VICE-PRES. LAMMERT FURNITURE COMPANY
EDWARD V. LONG
UNITED STATES SENATOR
HENRY A. LONGMEYER
FEED LOT OPERATOR
ARTHUR W. LUCAS
VICE PRESIDENT MONSANTO CHEMICAL COMPANY
MINARD T. MACCARTHY
VICE PRESIDENT
RICHARD A. MEYER
VICE-PRES. ANHEUSER-BUSCH, INC.
JACK W. MINTON
VICE PRESIDENT
CHRIS J. MUCKERMAN
PRES. ST. LOUIS FIRE & MARINE INSUR. CO.
A. H. PERRY
PRES. INSURANCE COMPANY OF ST. LOUIS
R. E. PETERING
VICE PRESIDENT AND TREASURER THE EMERSON ELECTRIC MFG. COMPANY
R. S. POTASHNICK
PRES. POTASHNICK CONSTRUCTION CO. INC.
JOSEPH F. RUWITCH
PRES. RICHARD LINOLEUM & RUG COMPANY
J. E. WILLIAMS, JR.
PRES. J. E. WILLIAMS CONST. CO.

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

After discussing the application of Janus Mining Company for a $140,000.00 loan for purposes of exploration in Virginia City, Montana, we regretfully report that we are unable to give such a loan favorable treatment.

We are indeed sorry that we cannot help you.

Yours truly,

Paul P. Keim
Vice President

PPK/ht

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

30 Xerox Free Parking at The Rear of Xerox Bank

$10,000 MAXIMUM INSURANCE FOR EACH DEPOSITOR

XERO COPY

# EXPLORATION AND MINING LEASE

THIS AGREEMENT, made and entered into this 9th day of June, 1965, by and between A. J. KATCHES, VIRGINIA CITY, MONTANA, hereinafter called the LESSOR (whether one or more), and JANUS MINING COMPANY, a MONTANA corporation, VIRGINIA CITY, MONTANA, hereinafter called the LESSEE, W I T N E S S E T H:

That for and in consideration of the sum of Three and 50/100 Dollars in hand paid, the receipt and sufficiency of which is hereby acknowledged by the LESSOR, and in further consideration of the agreements and provisions hereinafter contained, the LESSOR does hereby demise and lease for the purposes hereinafter set forth, to the LESSEE, the following described lands and premises, to-wit:

NELLIE BLY, ALDER FRACTION, PRESCOT AND MALTA LODES DESIGNATED BY THE SURVEYOR GENERAL AS SURVEY NO. 9722 EMBRACING A PORTION OF TOWNSHIP 7 SOUTH, RANGE 3 WEST, M. P. M. IN THE HIGHLAND UNORGANIZED MINING DISTRICT, FOR A MORE PARTICULAR DESCRIPTION OF WHICH REFERENCE IS MADE TO PAGE 115, BOOK 145, RECORDS OF MADISON COUNTY, MONTANA

to have and to hold the same exclusively with all rights and privileges thereunto appertaining, for the purpose of exploring for, developing, mining, removing, and selling any and all minerals and ores which the LESSEE may desire, together with the right of ingress and egress, and drilling, digging, and otherwise penetrating into the said lands, and building roads and erecting other improvements thereon as may be reasonable and necessary in such operations; all for the period of time hereinafter described, and all without liability on the LESSEE'S part for any surface damage caused thereby; provided, that the LESSEE shall seasonably commence operations hereunder and shall prosecute the same diligently and continuously, weather permitting.

EXPLORATION PERIOD. The period of this lease from the date hereof to and including June 9, 1965, shall be known as the exploration period, during which time the LESSEE shall have all the rights and privileges herein set forth, for the purpose of exploring said leased premises for minerals and ores other than oil, gas, or other hydrocarbons, by drilling, test pitting, trenching, blasting, shaft sinking, or such other geological methods of exploration as may be usual, customary, or practicable therein, including the removal of ores or minerals found, for purposes of testing or assaying or other research, but not for commercial purposes.

TERM OF LEASE. In the event the LESSEE determines, during the aforesaid exploration period, that minerals or ores exist in, upon, or under said premises in commercial quantity and quality, then this indenture shall continue in effect as a lease upon said premises, from year to year, provided the LESSEE shall pay to the LESSOR'S credit at the FIRST NATIONAL BANK at BOZEMAN, MONTANA, on or before the 9th day of June of each such year, in advance, a minimum annual advance royalty in the amount of One Thousand and no/100 Dollars ($1,000.00) which shall be credited against royalties accruing thereafter to the LESSOR for the year as to which such minimum advance royalty payment is made.

ROYALTY. For ores of copper, zinc, lead, silver, gold, or other metals produced from said premises and shipped to a mill or smelter, the LESSEE agrees to pay to the LESSOR a royalty of TEN PERCENT (10%) based upon the net mill or smelter returns of the ore mined hereunder; by "net mill or smelter returns" is meant the amount



XERO COPY XERO COPY XERO COPY XERO COPY

received for such ores from mill or smelter after deducting therefrom the cost of milling, smelting and freight or haulage charges from the mine to the mill or smelter; with payment of said royalty the LESSEE shall submit to the LESSOR a copy of their settlement sheet for each lot which settlement is made, and said settlement sheet and royalty check shall be paid within twenty days after receipt of payments by the LESSEE.

OPERATIONS. The LESSEE shall conduct all its operations hereunder in a skillful and proper manner and according to good mining practices, and, subject thereto, may use such methods of mining as to the whole or any part of the said premises as it finds most profitable and economical, or may, when deemed necessary or desirable, discontinue operations entirely hereunder; provided that all payments of taxes, royalties, and rentals have been made and that the LESSEE is not in default hereunder; provided, that in such event and upon termination hereof, the LESSEE agrees to deliver a good and sufficient and recordable release and termination hereof, releasing and returning unto the LESSOR all rights hereunder; provided further, that upon termination hereof the LESSEE shall have a reasonable time in which to remove its equipment, materials, and improvements from said premises.

TIME; ASSIGNMENTS. Mining development and production of the mineral resources of the said premises, timely performed, are of the essence hereof, subject to the terms and provisions herein set forth; and all terms and conditions hereof shall be binding alike upon the parties hereto, their respective successors, heirs, and assigns.

TITLE. The LESSOR agrees that he will, upon request of the LESSEE, furnish for examination an abstract of title to the said premises showing good and merchantable title in him, and to correct any defects therein which are required by the LESSEE, at his own expense; such abstract to be returned to the LESSOR upon completion of such examination; and the LESSOR hereby warrants that his title thereto is good and merchantable.

Hereby releasing and waiving all rights in and to said lands under the homestead exemption laws of the State of Montana.

WITNESS the hands of the parties, and to a duplicate hereof, the day and year first above set forth.

A. Katches
LESSOR

JANUS MINING COMPANY

By Alvin B. Seibert
President

Fred W. Hoffman
Secretary

LESSEE

(SEAL)



XERO COPY XERO COPY XERO COPY XERO COPY

STATE OF MONTANA
ss.
COUNTY OF MADISON

On this 9th day of JUNE, 1965, before me personally appeared A. J. KATCHES, to me known to be the person described in and who executed the foregoing Exploration and Mining Lease, and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

Mary Ellen Smith
Notary Public for the State of Montana.
Residing at Virginia City, Montana.
My commission expires June 12, 1965.

* * * * * * * * * * *

Acknowledgment To The Lease (Corporation)

STATE OF MONTANA
ss.
COUNTY OF GALLATIN

On this 11th day of JUNE, 1965, before me personally appeared ALVIN B. SEIBERT and FRED W. HOFFMAN, to me personally known, who, being by me duly sworn, did say that they are the President and Secretary of JANUS MINING COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Directors and said President and Secretary acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and notarial seal the day and year in this certificate first above set forth.

H. A. Bolinger Jr.
Notary Public for the State of Montana.
Residing at Bozeman, Montana.
My commission expires Jan 14, 1968

RECORDER'S OFFICE,
Madison County, Montana } ss.
Filed for record on the 26 day
of July A. D. 1965
at 9:30 o'clock A.M., and recorded
in Volume 205 of Mining
Records on Page 377
Records of Madison County, Montana
Pearl L. Brandsby
County Recorder
By
Fee $ 6.00 Deputy

A. J. Katches
Vs. city
M



XERO COPY XERO COPY XERO COPY XERO COPY

INDEXED
PLATTED



32633

# MINING LEASE

THIS AGREEMENT, made and entered into this 9th day of August, 1965, by and between LOWELL M. PAIGE and EVA PORTIA PAIGE, husband and wife, of Sheridan, Montana, and BOYNTON G. PAIGE and HELEN M. PAIGE, husband and wife, of Philipsburg, Montana, hereinafter called the LESSOR (whether one or more), and JANUS MINING COMPANY, a Montana corporation, of Virginia City, Montana, hereinafter called the LESSEE, WITNESSETH:

That for and in consideration of the sum of TWENTY-FIVE and NO/100 DOLLARS in hand paid, the receipt and sufficiency of which is hereby acknowledged by the LESSOR, and in further consideration of the agreements and provisions hereinafter contained, the LESSOR does hereby demise and lease for the purposes hereinafter set forth, to the LESSEE, the following described and designated patented mining claim, which is located and situated in the County of Madison, State of Montana, to-wit:

> HIGHLAND LODE (PATENTED) MINING CLAIM, designated by the Surveyor General as Lot No. 7295, embracing a portion of Township 7 South, Range 3 West, Montana Meridian, Highland Mining District, Madison County, Montana, and containing 20 acres, more or less,

to have and to hold the same exclusively with all rights and privileges thereunto appertaining, for the purpose of exploring for, developing, mining, removing, transporting and selling any and all minerals and ores which the LESSEE may desire, together with the right of ingress and egress, and drilling, digging, and otherwise penetrating into the said lands, and building roads and erecting other improvements thereon as may be reasonable and necessary in such operations; all for the period of time hereinafter described, and all without liability on the LESSEE'S part for any surface damage caused thereby; provided, that the LESSEE shall seasonably commence operations hereunder and shall prosecute the same diligently and continuously, weather permitting.

EXPLORATION PERIOD. The period of this lease from the date hereof to and including August 9, 1965, shall be known as the exploration period, during which time the LESSEE shall have all the rights and privileges herein set forth, for the purpose of exploring said leased premises for minerals and ores other than oil, gas, or other hydrocarbons, by drilling, test pitting, trenching, blasting, shaft sinking, or such other geological methods of exploration as may be usual, customary, or practicable therein, including the removal of ores or minerals found, for purposes of testing or assaying or other research, but not for commercial purposes.

TERM OF LEASE. In the event the LESSEE determines, during the aforesaid exploration period, that minerals or ores exist in, upon, or under said premises in commercial quantity and quality, then this indenture shall continue in effect as a lease upon said premises, from year to year, provided the LESSEE shall pay to the LESSOR, on or before the 9th day of AUGUST of each such year, in advance, a minimum annual advance royalty in the amount of THREE HUNDRED and NO/100 DOLLARS which shall be credited against royalties accruing thereafter to the LESSOR for the year as to which such minimum advance royalty payment is made.



XERO COPY XERO COPY XERO COPY XERO COPY

ROYALTY. For ores of copper, zinc, lead, silver, gold, or other metals produced from said premises and shipped to a mill or smelter, the LESSEE agrees to pay to the LESSOR a royalty of twelve and one-half (12½%) per cent based upon the net mill or smelter returns of the ore mined hereunder; by "net mill or smelter returns" is meant the amount received for such ores from mill or smelter after deducting therefrom the cost of milling, smelting and freight or haulage charges from the mine to the mill or smelter; with payment of said royalty the LESSEE shall submit to the LESSOR a copy of their settlement sheet for each lot which settlement is made, and said settlement sheet and royalty check shall be paid within twenty days after receipt of payments by the LESSEE.

OPERATIONS. The LESSEE shall conduct all its operations hereunder in a skillful and proper manner and according to good mining practices, and, subject thereto, may use such methods of mining as to the whole or any part of the said premises as it finds most profitable and economical, or may, when deemed necessary or desirable, discontinue operations entirely hereunder; provided, that in such event, and upon termination hereof the LESSEE agrees to deliver a good and sufficient and recordable release and termination hereof, releasing and returning unto the LESSOR all rights hereunder; provided further, that upon termination hereof the LESSEE shall have a reasonable time in which to remove its equipment, materials, and improvements from said premises.

TAXES, LIENS, LAWS, AND REGULATIONS. The LESSEE shall pay all valid taxes and assessments levied against its operations or property on said patented mining claim, and to accomplish all its work and operations hereunder free at all times from liens of its laborers or contractors, and in full compliance with all applicable state and federal laws and regulations.

TIME; ASSIGNMENTS. Mining development and production of the mineral resources of the said premises, timely performed, are of the essence hereof, subject to the terms and provisions herein set forth; and all terms and conditions hereof shall be binding alike upon the parties hereto, their respective successors, heirs, and assigns.

TITLE. The LESSOR agrees that he will, upon request of the LESSEE, furnish for examination an abstract of title to the said premises showing good and merchantable title in him, and to correct any defects therein which are required by the LESSEE, at his own expense; such abstract to be returned to the LESSOR upon completion of such examination.

Hereby releasing and waiving all rights in and to said lands under the homestead exemption laws of the State of Montana.

WITNESS the hands of the parties, and to a duplicate hereof, the day and year first above set forth.

Lowell M. Paige
LOWELL M. PAIGE

Eva Portia Paige
EVA PORTIA PAIGE

Boynton G. Paige
BOYNTON G. PAIGE

Helen M. Paige
HELEN M. PAIGE

LESSOR



XERO COPY XERO COPY XERO COPY XERO COPY

JANUS MINING COMPANY

By _____ PRESIDENT

By _____ SECRETARY

LESSEE

STATE OF MONTANA
ss.
County of Madison

On this 30 day of Aug, 1965, before me, personally appeared LOWELL M. PAIGE and EVA PORTIA PAIGE, his wife, to me known to be the persons described in and who executed the foregoing Mining Lease, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

_____
Notary Public for the State of Montana.
Residing at Sheridan, Montana.
My commission expires Aug 13, 1967.

STATE OF MONTANA
ss.
County of Granite

On this 2nd day of September, 1965, before me, personally appeared BOYNTON G. PAIGE and HELEN M. PAIGE, his wife, to me known to be the persons described in and who executed the foregoing Mining Lease, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

_____
Notary Public for the State of Montana.
Residing at Philipsburg, Montana.
My commission expires Dec 31 1966.

---



XERO COPY XERO COPY XERO COPY XERO COPY

Acknowledgment to the Lease (Corporation)

STATE OF MONTANA
ss.
County of Madison

On this 14th day of September, 1965, before me personally appeared ALVIN B. SEIBERT and FRED W. HOFFMAN to me personally known, who, being by me duly sworn, did say that they are the President and Secretary of JANUS MINING COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation by authority of its Board of Directors and said President and Secretary acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and notarial seal the day and year in this certificate first above set forth.

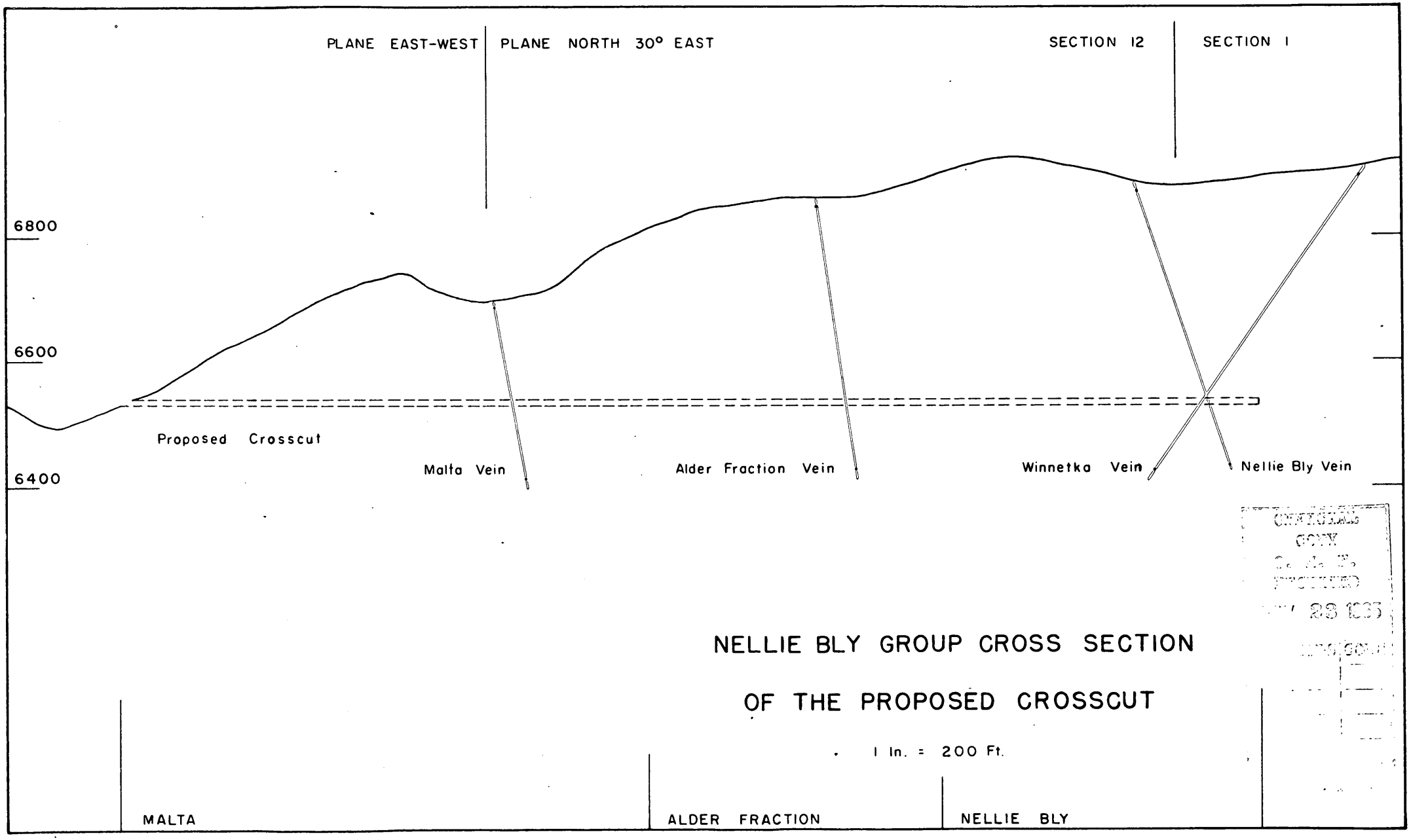
Mary Ellen Smith
Notary Public for the State of Montana.
Residing at Virginia City, Montana.
My commission expires June 12, 1968.

RECORDER'S OFFICE, }
Madison County, Montana. } ss.
Filed for record on the 14th day
of September A. D. 1965
at 3:20 o'clock P M., and recorded
in Volume 205 of Miscellaneous
Records on Page 409
Records of Madison County, Montana
Pearl S. Beardsley Brokele
County Recorder
By Deborah T. Spuhler
Deputy
Fee $8.00



Return to
A. J. Hatches
Box 442
Virginia City, Mt.

XERO COPY XERO COPY XERO COPY XERO COPY




NELLIE BLY GROUP CROSS SECTION

OF THE PROPOSED CROSSCUT

1 In. = 200 Ft.

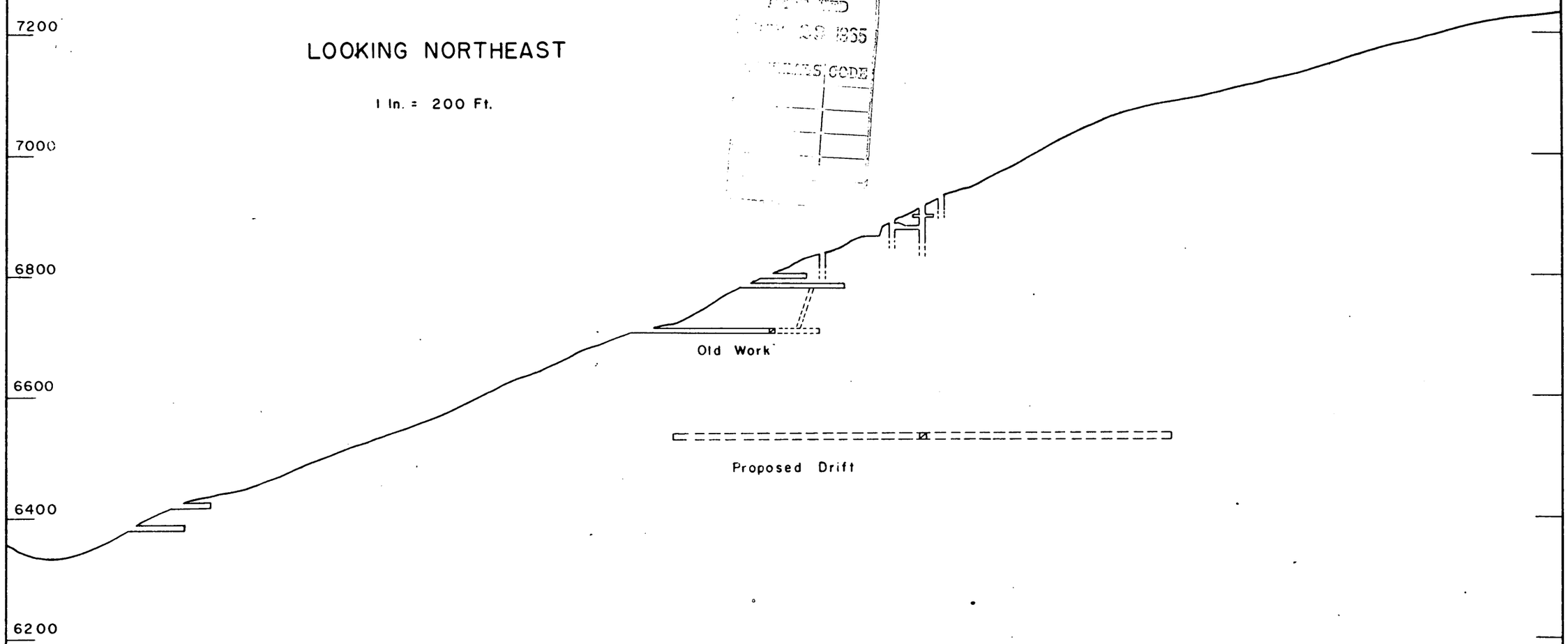
ORIGINAL COPY
Carlin E. Prochnow
MAY 28 1935

# NELLIE BLY VEIN LONG SECTION

## LOOKING NORTHEAST

1 In. = 200 Ft.

OFFICIAL
COPY
C. M. B.
FILED
SEP 1935
MINERS CODE




| | | | | |
|---|---|---|---|---|
| | ALDER FRAC. | NELLIE BLY | SECTION 1 / SECTION 12 | PRESCOT |

Maps

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

| FOR GOVERNMENT USE ONLY |
|---|
| Operator |
| Docket No. OME – |
| Contract No. 14-23-090 – |
| Contract Date |

LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of Madison, State of Montana, described ~~as follows~~: 2/ in a lease dated June 9th, 1965 and recorded in Book 205, Page 377, Miscellaneous Records of Madison County, Montana.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

JANUS MINING COMPANY, a corporation 3/

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same. 4/

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.) None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated_____, and recorded in Book_____, Page____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Dated this 18th day of November, 19 65.

| | | |
|---|---|---|
| A.J. KATCHES (Seal) | Virginia City, Montana | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ (Corporate Seal)

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

| FOR GOVERNMENT USE ONLY |
|---|
| Operator |
| Docket No. OME – |
| Contract No. 14-23-090 – |
| Contract Date |

LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of **Madison**, State of **Montana**,

described ~~as follows~~: 2/ **in a lease dated June 9th, 1965 and recorded in Book 205, Page 377, Miscellaneous Records of Madison County, Montana.**

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

**JANUS MINING COMPANY, a corporation** 3/

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same. 4/

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.) **None**

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated _____, and recorded in Book _____, Page ____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Dated this 18th day of November, 19 65.

A. J. KATCHES (Seal) _____ (Street) Virginia City, Montana (City & State)

_____ (Seal) _____ (Street) _____ (City & State)

_____ (Seal) _____ (Street) _____ (City & State)

_____ (Seal) _____ (Street) _____ (City & State)

_____ (Seal) _____ (Street) _____ (City & State)

_____ (Seal) _____ (Street) _____ (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ (Corporate Seal)

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

| FOR GOVERNMENT USE ONLY |
|---|
| Operator |
| Docket No. OME – |
| Contract No. 14-23-090 – |
| Contract Date |

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Madison, State of Montana,

described ~~as follows~~:[2] in a lease dated June 9th, 1965 and recorded in Book 205, Page 377, Miscellaneous Records of Madison County, Montana.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

JANUS MINING COMPANY, a corporation [3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.) None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated _____, and recorded in Book_____, Page____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

Dated this 18th day of November, 1965.

| | | |
|---|---|---|
| A. J. KATCHES (Seal) | Virginia City, Montana | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |
| (Seal) | | (Street) (City & State) |

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____
(Corporate Seal)

INT.-DUP. REC., WASH., D.C. 21103

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 3/21/68 | Smith | 120 |
| " | Kirkham | 120 |
| | | 110 |
| | | 220 |
| | | |
| | | |
| | | |
| | | |
| | | |

MAR 21 1968

**AIRMAIL**

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana 59755

Re: OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Katches:

Pursuant to your letter of March 15, 1968, your application for exploration assistance under the subject docket is considered as withdrawn and is being placed in our inactive files.

We thank you for your interest in the minerals exploration program.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME docket
OME Reading File
OME Region I
Mr. Smith

GLAult/a 3-21-68

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

OFFICIAL
COPY
O. M. E.
RECEIVED
MAR 18 1968
INITIALS | CODE
130
120 M
110
120 S

Air Mail

March 15, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME-6522 (Silver-Gold)
Nellie Bly Group
Madison County, Montana

Dear Mr. Johnson:

At this time we request withdrawal of our application OME-6522, Nellie Bly Group properties.

We may consider filing a new application at some future date at which time we will furnish all of the information that had been previously requested by your office together with new supporting data.

Sincerely yours,

JANUS MINING COMPANY

A. J. Katches

A. J. Katches

AJK

cc: Mr. D. R. MacLaren

acknowledge

# JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

~~710~~
~~120 S~~
File OME-6522

September 2, 1967

AIRMAIL

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME 6520 (Silver-Gold-Copper)
Janus Mining Company
Janus Group
Madison County, Montana

Dear Mr. Johnson.

The enclosed letter addressed to you is evidence that the Highland lode claim Lease has been secured for two years as requested.

We appreciate very much knowing that a contract is being prepared on the Janus Group properties.

In the meantime in regard to the Nellie Bly Group, a lode claim is being located along the Nellie Bly Tunnel NO. 4 vein and superimposed on the placer claim as you suggested. This advice is appreciated. The unnamed claim area between the placer and the Winnetka claim is also being located. I have been negotiating for rights to the Winnetka Lode claim and report nothing conclusive at this time.

6522

Sincerely yours,

A. J. Katches

cc: Mr. D. R. MacLaren
Field Officer, OME

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 8/18/67 | RMSmith | 120 |
| 8/18/67 | Kirkemo | 120 |
| | | 110 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |

aug 18 1967

**AIRMAIL**

Mr. A. J. Katches
James Mining Company
Virginia City, Montana 59755

Re: GMK-6520 (Silver-Gold)
James Mining Company
James Group
Madison County, Montana
and
GMK-6522 (Silver-Gold)
James Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Katches:

Please accept our apology for the delay in answering your letter of May 27, 1967. We were under the impression that additional claims and/or leases were being acquired, but it now appears that each of us was waiting on the other. The current status of the two referenced applications is as follows:

James Group

A contract is being prepared for a project as outlined in our letter of February 8, 1967. If you wish to modify it, or if you do not wish to start the work this fall, will you please so inform us. Otherwise, a proposed contract for your approval should reach you about September 1.

Nellie Bly Group

Additional property acquisitions are prerequisite to a contract. The Nellie Bly Tunnel No. 4 is on a placer claim. To protect your rights to the Nellie Bly vein, a lode claim should be located along the vein and superimposed on the placer claim. In addition, rights to the Winnetka claim and the unnamed claim between the placer and the Winnetka would be required. Your suggestion for an interim project to drift 150 to 200 feet on the Nellie Bly No. 4 vein is not acceptable, partly because it is not covered by a lode claim and partly because the drift is too short and there are not enough backs to result in a significant discovery. Considering the difficulties you are encountering in obtaining

23263

sufficient property rights, we suggest that this application (OME-4522) be withdrawn. It can be reopened at any time as outlined in our letter of May 23, 1967. Unless you instruct us otherwise, we shall consider it as having been withdrawn as of September 18, 1967.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Dockets (2)
OME Reading File
OME Region I (2)
Mr. Smith

RMSmith/gla 8-18-67

GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
August 15, 1967

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

This refers to your letter of February 28, 1967, to the Applicant, his reply of May 27, 1967, and your memorandum of June 8, 1967, to the Field Officer, Region I. Nothing has been heard from the Applicant since his May 22 letter. In order that something may be done to clear up the situation now pending, the following recommendations are made:

Nellie Bly No. 4 Adit.--It is recommended that the Applicant's proposal to provide for 150-200 feet of drift to the southeast on the Nellie Bly be denied. There are two principal reasons for this recommendation.

1. Although it is difficult to apply topography from a map scale of 1:62,500 to a map scale of 1" = 200' with accuracy, as nearly as can be determined backs at the face of a 200-foot drift would be about 110 feet. Basing an estimate on a triangle 200 feet long and 110 feet high, an average ore width of 3.5 feet, an average grade of 0.67 ounce gold per ton and 5.56 ounces silver per ton, $35.00 per ounce for gold and $1.80 per ounce for silver (refer to Examination Report, page 11, HW. and Vein assays) the best discovery that could be expected is in the order of 558 tons of ore worth $18,000.00, $12,616.01 in gold and $5,384.00 in silver.

2. Since preparing the Examination Report, I have checked with S. W. Zoldok of the Bureau of Mines and Al Martin of the Bureau of Land Management. Both have confirmed a point that was overlooked in the report. A placer claim does not guarantee rights to work on

a lode even though it be within the placer boundaries, and it would be quite legal for anyone to stake a valid lode claim thus acquiring rights to the lode and any work done on it.

The applicant should be advised that, in addition to the documents relative to claims requested in your February 8 letter, he should also submit documentary evidence that he has rights to a lode claim overlapping his No. 515 placer claim. When the property rights are completely documented, the previously recommended work on the Nellie Bly claim should be considered.

Jacus Adit.--As you point out in your June 8 memo to the Field Officer, the applicant's proposal conforms to the work previously recommended and poses no problem.

It is recommended that a contract be prepared for the crosscut, drifting, and long holing as presented in the Examination Report.

It is also recommended that the applicant be advised that if the property problem, including a lode claim to protect the Nellie Bly vein across the No. 515 placer, is not received within say 30 or 60 days, that application will be considered as withdrawn.

D. R. MacLaren

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 6/8/67 | A M Smith | 120 |
| 6/8/67 | Nickerson | 120 |
| | | 110 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |

JUN 8 1967

AIRMAIL

Memorandum

To: Field Officer, Region I

From: Chief, Office of Minerals Exploration

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Please refer to your copy of the Applicant's letter of May 27, 1967, in which he indicates general concurrence in our suggestion of February 8, 1967. The Applicant now proposes to explore the Nellie Bly No. 4 vein on the No. 4 tunnel level by drifting southeast 150 to 200 feet, and to explore this and other veins on the Janus adit level (Janus 3 claim) by crosscutting southwest 790 feet and drifting on the two best showings.

Nellie Bly No. 4 adit

The proposal to drift 150-200 feet is made because it would not require additional property acquisitions. In your examination report you recommended drifting 500 feet in this adit, so we question whether 200 feet would be sufficient to make a discovery.

Janus adit

The Applicant's proposal conforms to your recommendations, and so far as we can see it poses no problems.

Before we request the documents listed on page 16 of your examination report, may we have your views and recommendations on the merits of the proposed modified project on the Nellie Bly group.

cc: Director's Reading File
Division File
Economic Geology File
OME Dockets 6520 and 6522
OME Reading File
Mr. Smith
In duplicate

FRANK E. JOHNSON

Frank E. Johnson

RM Smith/gla 6-8-67

23263

# JANUS MINING COMPANY
VIRGINIA CITY MONTANA

Recd. 5/31/67

**AIRMAIL**

May [illegible]

Mr. Frank [illegible] Jonkins
Chief [illegible] Mineral Exploration
Office of [illegible] Department of the Interior
Washington, D.C.

Re: CME-6 [illegible] (Silver Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

and

CME-6 [illegible] (Silver Point)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Jonkins:

The modified [illegible] form in your [illegible] was reviewed with our [illegible] Co. [illegible] Inc. [illegible] Pilot, and is acceptable [illegible]

However, our position has been comparatively [illegible] somewhat delayed in obtaining preferably out [illegible] ownership in the [illegible] areas in questi[illegible] by the Wanoch [illegible] and the unnamed [illegible] that overlies the NW corner of the Wanoch claim. The owner of the Wanoch claim has resided in California the past winter, due to his age and bad health. [illegible] feel that more can be accomplished in a personal meeting upon his retu[illegible] The area that overlies the NW corner of the Wanoch claim is open

[illegible] ground. We [illegible] [illegible] office. However [illegible] the minimal amount of [illegible] [illegible] will be [illegible] [illegible] we are able to properly [illegible] [illegible] discovery [illegible] [illegible] before a location certificate.

Therefore, in the interim period we suggest a drift on the Nellie Bly NO. 4 vein to the southeast for 100 to 200 feet which is considered desirable because it will provide information regarding the metal values of a newly discovered and persistent vein. This assumes that the drift will be sampled at regular intervals. The persistence of the vein is well established because of its recent uncovering across the gulch, approximately 350 feet northwest of the Lattimer discovery. This amount of drifting may be accomplished without any additional property acquisitions.

With reference to the original proposal of [illegible] and drifting from the Nellie Bly NO. 3 tunnel and your request for additional evidence to justify this project, wish to advise that new work done to this date includes reopening of an old caved underground workings located on the Alder Fraction vein. This tunnel, located approx. 180 feet southeast of the northwest corner of the Alder Fraction claim crosscut the Alder Fraction structure. The one sample taken across a 4 foot width assayed .20 gold and 1.8 silver. We plan a series of dozer cuts across the projected southeast strike of this vein, also dozer cuts on the Malta claim structure. When this work is completed the evidence should support the probability of a significant discovery relative to the Nellie Bly NO. 3 tunnel project.

Crosscutting southwest from the Janus adit is also considered

desirable because this crosscut should cut the NO. 4 vein discussed above, 290 feet southeast of the present face and the copper vein at 390 feet from the face. Drifting on the best two exposures will then obtain information on the metal values of these veins. The crosscut will also prove or disprove the existence of a Highland structure.

We would at this time be most pleased to receive an exploration contract on the James group on the modified project basis as outlined in your letter.

Sincerely yours,

James Mining Company

A. J. Katches

AJK
cc: Mr. D. R. MacLaren
Field Officer, OME
Spokane, Washington

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

MAY 23 1967

AIRMAIL

Mr. A. J. Katchas
Janus Mining Company
Virginia City, Montana 59755

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Katchas:

We have not heard from you since your letter of February 22, 1967.

As we cannot indefinitely postpone action on an application, we shall consider your applications as having been withdrawn if we do not hear from you within thirty days from the date of this letter.

If the applications are withdrawn and you wish to reopen these cases sometime in the future, you may do so by submitting new application forms (MME Form 40), new bank letters dated within the preceding 90 days, referring to these docket numbers, and furnishing the information previously requested together with any new data that you think might be helpful.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Econ. Geol. File
OME Docket 6520
OME Docket 6522
OME Reading File
Region I (2)

MMerrithew/mm (5/23/67)

23263

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

AIRMAIL

February 22, 1967

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Johnson:

Thank you very much for your recent letter regarding these properties.

I plan an early meeting with Mr. Ingersoll and othersmembers of our company, at which time the additional documents and information will be compiled and forwarded to you.

Sincerely yours,

Janus Mining Company

A. J. Katches

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 2/7/67 | R M Smith | 120 |
| | On leave | 120 |
| | | 110 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |

AIRMAIL

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

Dear Mr. Katches:

Our review of your applications and of other information, including the results of an on-site inspection of the referenced properties, indicates that additional documents are needed to establish your sufficient interest in the land you propose to explore. In addition, the review indicates the possibility of a modified project to explore the area to better advantage at less cost.

So that we may continue our review of these applications, will you please furnish the following documents:

1. One true copy of the lease or other evidence of rights to the No. 515 Placer claim and five copies of a Lien and Subordination Agreements signed by the owner.

2. One true copy of a lease or other evidence of rights to the Winnetka claim and five copies of a Lien and Subordination Agreements signed by the owner.

3. One true copy of a lease or other evidence of rights to the unnamed claim which overlies the NW corner of the Winnetka claim and five copies of a Lien and Subordination Agreements signed by the owner.

In addition to the information requested above, will you give us your views on the acceptability and desirability of the following modified project:

23263

Janus Group

Crosscutting southwest from the No. 3 adit - 900 feet
Drifting one or both ways on the two best showings in the crosscut - 1,000 feet total
Longhole drilling from the drifts - 3,000 feet

Nellie Bly Group

Drifting southeast, and raising, if warranted, from the Nellie Bly No. 4 tunnel - 500 feet

We recognize that the possibility of extending the Nellie Bly No. 4 tunnel is contingent upon obtaining rights to the unnamed claim mentioned above, and that these rights may not be obtainable. In that case, or if you conclude that the original proposal of crosscutting and drifting from the No. 3 tunnel is preferable, we would need additional evidence to justify the project. This evidence should support the probability of a significant discovery. It should include evidence to substantiate the existence of the Alder Fraction vein and that it is mineralized. Your reasons for expecting to find ore by the proposed work should include an explanation of why the target area and the proposed crosscut are located as shown rather than in some other location.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall hold the further processing of your applications until the requested data are received.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures - 3 sets MME Form 52

cc: Director's Reading File
Division File
Economic Geology File
OME-6520
OME-6522
OME Reading File
OME Region I (2)
Mr. Smith

RMSmith/gla 2-7-67

OME

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 18 1967
INITIALS | CODE
gla | 130
| 110

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
GEOLOGICAL SURVEY

JAN 13 1967

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6520 (Silver-Gold)
Janus Mining Co.
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Co.
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Co.
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Co.
Terra Cotta Group
Madison County, Montana

See map, Grate, attached to OME-6520 copy

## INTRODUCTION

Janus Mining Company submitted four applications for OME assistance to explore for silver-gold ores in the Highland, Pine Grove, and Summit Mining Districts (unorganized) along Alder and Bachelor Gulches, Madison County, Montana. For the purpose of this report these districts are combined and considered as belonging to the better known Virginia City District.

None of the applications presented evidence of specific geologically favorable target areas. Each indicated that the applicant had performed no work on the properties and that most of the old workings were inaccessible. The required information was discussed with the applicant in two letters from the Chief, OME, and a conference with OME staff members in the Washington office. The applicant also conferred in the field with the Chief Geologist who was in the area in connection with the Heavy Metals Program.

During the latter conference it became apparent that the applicant had performed considerable work in the Nellie Bly, Janus, and Terra Cotta areas and that he was still confused as to just what he should present as geologic and mineralogic evidence of the existence of favorable target areas in compliance with the OME request. In a final effort to clarify this matter, a prereferral conference with the applicant and an inspection of the claims was scheduled.

FIELD EXAM REPT.

On September 19, 1966, accompanied by A. J. Katches, Vice President, Bob Ingersoll, geologist for Anaconda Mining Company and consultant for the applicant, and K. L. Wier, Geological Survey, an inspection was made of vein exposures and new workings on the Nellie Bly, Terra Cotta, and part of the Janus Groups. The site of the Upper Portal and Shaft of the Bartlett mine was also visited, but the workings were inaccessible due to caving. On the 20th, Katches, Wier, and the examiner visited other parts of the Janus Group in the morning and in the afternoon the data required of an applicant was again explained in detail to Katches. Mr. Wier was most helpful during the inspections and the explanation of the OME requirements.

The applications were referred to the field October 10, 1966. In view of the September inspection and the additional data furnished by the applicant, it is believed that a fair appraisal can be made without another visit to the property.

This report will discuss those features that are more or less common to all four applications and, under subheadings where necessary, will discuss specific features of each application.

## CONCLUSIONS AND RECOMMENDATIONS

It is concluded that exploration, with Government assistance, of two veins, one containing gold-silver values extending from the Janus group to the Nellie Bly group and one containing copper values on the Janus groups is warranted.

A program involving crosscutting and drifting a total of 2,400 feet is recommended provided certain ground, not now controlled by the applicant, be acquired and added to the land presently included in the Janus (OME-6520) and Nellie Bly (OME-6522) applications.

The total estimated cost of the recommended project is $107,120.00, of which the Government's share will be 62½ percent or $66,950.00.

## LOCATION, ACCESSIBILITY, AND PROPERTIES

The claims are located in parts of secs. 1, 11, 12, 13, 14, 23, and 24. T. 7 S., R. 3 W. P.M. along Alder and Bachelor Gulches from about 3 to 6 miles east of Virginia City, Montana. The groups are accessible by a county road that follows along Alder Gulch and forks to follow up Bachelor Gulch. From the county roads, fairly good mine roads lead to the tunnel portals. Probably, the county roads and some of the adit access roads could be kept open during most of the winter by plow and dozer. Since submitting the applications, one claim has been added to the Nellie Bly group.

In the four claim groups the applicant controls by lease 5 patented lode claims and by right of location 21 unpatented lode claims as follows:

Janus Group - OME-6520

| Claim | Patent No. | Book | Page |
|---|---|---|---|
| Highland | 42436 | | |
| Janus Lode | | 211 | 11 |
| Janus No. 1 | | 211 | 13 |
| Janus No. 2 | | 211 | 15 |
| Janus No. 3 | | 211 | 17 |
| Janus No. 4 | | 211 | 19 |
| Giltedge Lode | | 211 | 299 |
| Giltedge No. 2 | | 211 | 301 |
| Giltedge No. 3 | | 211 | 423 |

Latchstring Group - OME 6521

| | | | |
|---|---|---|---|
| Latchstring Lode | | 211 | 321 |
| Latchstring No. 1 | | 211 | 323 |
| Latchstring No. 2 | | 211 | 419 |
| Latchstring No. 3 | | 211 | 421 |
| Greybache Lode | | 211 | 413 |
| Greybache No. 1 | | 211 | 415 |
| Greybache No. 2 | | 211 | 417 |

Nellie Bly Group - OME-6522

| | | | |
|---|---|---|---|
| Nellie Bly Lode | 491535 | | |
| Alder Fraction Lode | 491535 | | |
| Prescot Lode | 491535 | | |
| Malta Lode | 491535 | | |
| Desiree | | 211 | 35 |
| Malta No. 2 | | 211 | 566 |

Terra Cotta Group - OME-6523

| Claim | Book | Page |
|---|---|---|
| Silver Cable Lode | 211 | 23 |
| Silver Cable No. 1 | 211 | 25 |
| Terra Cotta Lode | 211 | 31 |
| Terra Cotta No. 1 | 211 | 33 |

In addition to these 26 claims the applications state that there are at least 3 patented placer claims controlled by the applicant. One of these, indicated as No. 515 Placer on the claim maps accompanying the applications for projects on the Janus and Nellie Bly claims and on subsequently furnished maps of these two groups, is pertinent to the recommended project. However, there is nothing in the applications to indicate whether this claim was acquired by purchase or lease.

Originally, there were two areas of open ground on the Nellie Bly group, one of which has been closed by the applicant's filing on the Malta No. 2 claim. The other area is bounded by the Nellie Bly southeast side, the Alder Fraction northeast side line, and the Prescot north side line and is indicated by diagonal lines in the accompanying plate 1. Another open area apparently pertinent to the recommended work, may be north of the west one-third of the Winnetka claim. At present Katches is a part owner of a lease on the Winnetka claim and is negotiating with his partners and the owner to sell the claim to the applicant, the Janus Mining Company.

The 1" = 1000' map entitled "Lode & Placer Claims in Alder Gulch . . ." which accompanied each application, shows two unnamed lode claims overlapping the north and west portions of the Winnetka. Another unnamed claim overlaps the east ends of Janus No. 3 and No. 4 claims. Apparently, none of these claims are patented. However, they overlap or come very close to the tunnel portals and one vein apex that will be recommended for exploration.

## GEOLOGY

The geology of the Virginia City and adjacent districts in which lie the applicant's claims is described by:

Peale, A. C., 1896, Description of the Three Forks Sheet [Montana], U. S. Geol. Survey Geol. Atlas, Folio 101

Winchell, A. N., 1914, Mining districts of the Dillon quadrangle, Montana, and adjacent areas: U. S. Geol. Survey Bull. 574, p. 158-165

Tansley, W., Schafer, P. A., and Hart, L. H., 1933, A geological reconnaissance of the Tobacco Root Mountains, Madison County, Montana: State of Montana Bur. of Mines and Geol., Memoir No. 9, p. 45-50

Rocks in the Virginia City area are for the most part pre-Beltian gneiss and schist overlain to the south and southeast by limestone, shale, sandstone and quartzite beds of Paleozoic and Mesozoic Age and basaltic flows of Cretaceous Age. The only rocks seen in place on any of the properties were gneiss and schist of the Cherry Creek series described by Tinsley, et al. (1933), and, in Tunnel No. 2 on the Nellie Bly claim, a hard blue-gray streak may represent the crystalline limestone member of the same series. The Cherry Creek series are said by Tinsley to be pre-Beltian in age, but Peale (1896) says that they are of Algonkian Age. Pegmatitelike lenses and bands may represent the quartz-feldspar gneiss described by Tinsley. Limestone float and some fairly large boulders or blocks of limestone were seen on the slopes on which the Nellie Bly claims are located, strongly suggesting that a bluff near the eastern edge of the claims is probably Paleozoic limestone.

According to Tinsley (1933, p. 20), the Cherry Creek rocks occupy a broad structural trough within which they are highly contorted into overturned folds with westward-dipping limbs.

Ore deposits occur in fissure veins in the Cherry Creek rocks. According to Tinsley, the veins may be roughly assigned to one of two systems, one striking northeasterly and one striking northwesterly, most of the veins in each system dipping from 55° to 77° northerly. However, some evidence of at least one and probably three east-west veins was seen by the examiner and is indicate on the applicant's maps which accompany Dockets OME-6520 and OME-6522 and on plate 1. One of these is on the Malta claim (OME-6522), the two others are on No. 515 placer claim just east of Giltedge No. 1 (OME-6520). Only the last two were seen by the examiner. The existence of the Malta vein is suggested by an easterly line of old pits now pretty well sloughed full of debris. Two samples the

applicant took from one of the pits assayed respectively trace gold and 0.4 ounce silver per ton and 17.4 percent copper over a width of 10 inches, and trace gold and trace silver per ton and 5.0 percent copper over a width of 36 inches.

The balance of this section of the report will be a more specific discussion of what was seen on each claim group. The discussion pertinent to the Janus and Nellie Bly groups may be followed on the accompanying plate 1. That relating to the Terra Cotta and Latchstring groups may be followed on maps in the respective dockets. For lack of suitable space, those sample locations and assays considered of secondary importance have been omitted from plate 1, but are shown on maps the applicant submitted with his letter of October 3, 1966.

Janus Group - OME-6520

The portal of a crosscut tunnel starting near the east end of the Janus No. 3 center line (pl. 1) was boarded up and, as the applicant gave assurance that no structure was exposed, was not entered. The adit had been started because of large pieces of copper-stained float that were found nearby and was directed so as to pass beneath a surface trench where sample 712 exposed a vein striking about N. 15° W. and dipping about 55° SW. Sample 712, taken by the applicant, assayed trace gold and 0.2 ounce silver per ton and 1.71 percent copper over a width of 48 inches. By the time the examination was made the trench walls had sloughed; scratching around with a hand pick revealed quartz that appeared to be a vein in place, but its attitude could not be determined. A sample taken by the examiner assayed trace gold and 0.1 ounce silver per ton, and 2.30 percent copper over a width of about 24 inches.

About 600 feet south of the adit, a cut bulldozed to widen the road, exposed what at that time appeared to be a concentration of quartz float. Since the inspection, additional dozing is said to have exposed a quartz vein striking about N. 48° W. and dipping 60°-65° SW. The applicant's sample 5008 assayed 0.40 ounce gold and 3.4 ounces silver per ton over a width of 60 inches.

On strike and altitude this exposure correlates very well with an exposure indicated on plate 1 at Nellie Bly Tunnel No. 4 which will be described later.

Following the road for about 1,820 feet farther to the south, another road-widening dozer cut exposed another zone containing an apparently east-west striking and steeply dipping quartz vein and a zone heavily stained by iron oxide. The applicant's sample 3681 of the quartz vein assayed 0.49 ounce gold and 0.6 ounce silver per ton over a width of 31 inches; his sample 3684 of the iron-stained material assayed 0.12 ounce gold and 0.3 ounce silver per ton over

a width of 24 inches. The slope of the hill, for about 500 feet, westerly from these showings is too steep to permit dozing of trenches; as the slope flattens the applicant believes the overburder will be so deep as to make the cost of dozing excessive, and its results doubtful of success.

Latchstring Group - OME-6521

There are no trenches or exposures of vein material on the Latchstring group. Adjacent and to the west of the Greybache Lode is the Bartlett claim from which over 8,700 tons of ore averaging 0.421 ounce gold and 1.34 ounces silver per ton were shipped to the Anaconda Reduction Works between 1935 and 1941. The applicant has projected the vein exposed in the Bartlett Lower Tunnel for a distance of over 1,000 feet to the southerly end line of the Latchstring Lode Claim. Solely upon the basis of this projection he proposes to drive a 1,600-foot crosscut to try to locate the vein and, if found, to explore it by drifting some 2,000 feet northeasterly. (See map accompanying applicant's letter October 3, 1966, to Chief, OME.)

Nellie Bly Group - OME-6522

After plate 1 had been completed, it was learned that a new survey showed a slightly different relation between the locations of the old Tunnel No. 1 portal, the main shaft A and shaft B and the location of part of the No. 2 tunnel. A print of this new relationship, at 1" = 40', is in the docket with a copy of the applicant's letter of November 28, 1966 to the Field Officer, Region I, and an attempt has been made to incorporate these relative locations on plate 1. However, the rest of the old workings must remain as originally given and should be considered only as indicating that such workings exist but are probably south of their locations as shown on plate 1.

The inspection of the Nellie Bly claims started at the old workings. Although Tunnel No. 1 and shafts A and B were not accessible for sampling at the time of the inspection, samples had been taken previously by the applicant as follows:

| Location | Sample No. | Width (inches) | Ounces/Ton Au | Ounces/Ton Ag |
|---|---|---|---|---|
| | 433 | 48 | 0.26 | 1.0 |
| Shaft B* | 434 | 8 | 0.32 | 2.5 |
| | 435 | 40 | 0.14 | 1.6 |
| | NB 2 | 48 | 0.30 | 1.3 |
| Average | | 36 | 0.24 | 1.35 |
| *Sample V-1 is omitted - erratically high grade | | | | |
| Tunnel No. 1 | D-6 (selected specimen) | | 0.52 | 6.5 |
| Shaft A | 436 | 20 | 1.88 | 2.8 |

The next lower old tunnel was caved at the portal. A ladder, in a caved portion that opened to the surface, did not look very strong so this tunnel was not entered. The next and lowest tunnel was caved at the portal and was inaccessible. These workings apparently are along a shear zone in Cherry Creek schist. In places the shear zone exceeds 5 feet in width and contains several more or less parallel veins and veinlets of quartz and siliceous material. The zone strikes approximately N. 70°-75° W. and dips 74°-78° NE. (See map forwarded with copy of December 9, 1966 letter, Ingersoll to Field Officer, Region I.)

About 50 feet southwesterly from the middle old tunnel the applicant had exposed and sampled two mineralized zones he had scraped clear of overburden. They had been pretty well covered by normal soil creep at the time of the inspection. From the northerly zone he reported three primary samples, one of which was check sampled twice, another once. Averaging the primary sample assays with their respective check assays there is represented a width of 6 feet as follows:

| Sample No. | Average sample width (inches) | Average oz/T Au | Ag |
|---|---|---|---|
| T1,V-1;TR-57 | 24 | 0.13 | 0.7 |
| TR-51;TR-52 TR-62 | 26 | 0.13 | 0.2 |
| 439 | 24 | 0.16 | 0.2 |

Four samples were taken by the applicant, and one by the examiner, from the southerly zone and assayed:

| Sample No. | Sample width (inches) | Average oz/T Au | Ag |
|---|---|---|---|
| 3334 | 36 | 0.26 | 0.4 |
| 3346 | 9 | 0.36 | 1.1 |
| 3356 | 18 | 0.22 | 0.4 |
| 3357 | 12 | 1.18 | 0.4 |
| OME-600B | 12 | Tr | 0.1 |

The OME sample was taken approximately between the applicant's samples 3356 and 3357.

Tunnel No. 2 was started on a bearing of N. 85° E in order to intersect the productive ore zone below the old workings on the Nellie Bly vein. About 50 feet from the portal a siliceous zone flanked by softer heavily iron-stained zones was cut. At the time of the

inspection the iron-stained portions were timbered and the central siliceous portion was seen only on the south wall. Too much reliance was placed in the applicant's map then available, which lacked sample assays, and this was thought to be merely an unmineralized quartzite bed within the schist.

About 100 feet from the portal a crosscut has been driven southerly for about 50 feet. The applicant reported that a shattered siliceous zone with some clay had caused caving between 20 and 30 feet in the crosscut; this section had since been tightly lagged and could not be seen.

A subsequent map showing sample locations and assays suggest that two siliceous zones flanked by oxidized zones might represent a mineralized structure parallel to the Nellie Bly. The last map submitted at a scale of 1" = 40' seems to show that this structure probably is the Nellie Bly vein. Three samples from the drift and five from the crosscut have the following assays:

| Sample No. | Material sampled | Width (inches) | Ounces/T Au | Ounces/T Ag |
|---|---|---|---|---|
| 3379 | FeO stained | 36 | 0.46 | 2.2 |
| 3382 | Siliceous | 24 | 0.64 | Tr |
| 3385 | FeO stained | 29 | 0.24 | 0.2 |
| 3391 | Siliceous | 17 | 0.58 | 0.3 |
| 3625 | FeO stained | 24 | 0.16 | 0.5 |
| 3626 | FeO stained | 24 | 0.14 | 0.5 |
| 3619 | Siliceous | 31 | 0.16 | 1.1 |
| 3622 | Siliceous | 31 | 0.20 | Tr |

At the time, the applicant did not recognize this structure as being the Nellie Bly and continued the adit easterly. About 185 feet from the portal the adit entered blocky caving ground requiring heavy timbering. In the hopes of bypassing the bad ground, the adit about 20 feet back from the cave was driven southeasterly for 45 feet then turned to N. 67° E. At the time of the inspection the face was about 390 feet from the portal and was entering a highly siliceous blue-gray-to-light gray rock. The applicant stated that this material was similar to that just described as possibly being the Nellie Bly. The exposure was so close to the drift face that no reliable attitude could be determined although the siliceous material appeared to strike northwesterly and to dip northeasterly. The rock contained a fair amount of pyrite in small crystals, but a sample chipped by the examiner from several places in the siliceous band, zone, or bed assayed only 0.04 ounce gold, 0.4 ounce silver, and trace copper.

Tunnel No. 3 was temporarily closed by a cave at the portal. The applicant's map shows that he has driven it easterly for 330 feet, parallel to the line of old trenches he believes to represent the Malta vein. About 25 feet from the face he has driven a crosscut southeasterly for about 65 feet, then turned easterly and continued for about 50 feet. Although his maps do not indicate it, he recently stated in a telephone conversation that the last 50 feet or so is following the Malta vein. However, we have not received assays of any samples from this working.

There were no exposures, surface or underground, to indicate the location and attitude of the Alder Fraction vein. Four old underground workings, any or all of which might cut such a structure, were caved before the applicant became interested in this property and have not been reopened. The applicant justifies the location of this vein on his map by reasoning that since the claim is patented, the mineral surveyor must have found strong vein showings in some of the old workings. However, from the locations shown on the map, it is also conceivable that one of the old tunnels, started on No. 515 Placer claim near the north end line of the Alder Fraction claim, could be following the Nellie Bly or a vein parallel and close to it. Another old tunnel, started about on the Placer-Alder Fraction boundary, could conceivably have been driven to crosscut the Nellie Bly, although this is more questionable than the former possibility.

In the docket the statement is made to the effect that the most recent shipment from the old Nellie Bly workings was in 1941 when 80 tons were shipped to Anaconda. This is probably not strictly correct because on the map that shows sample locations and assays (received early in October 1966) a note says: "Available shipment returns from the Nellie Bly to the Anaconda Reduction Works, Anaconda, Montana, and to the American Smelting and Refining Smelter in East Helena, Montana, show small shipments from 1901 to 1941 totaling 83 tons averaging 0.836 oz Au and 2.3 oz Ag per ton."

A recently discovered vein series is exposed in a dozer cut within the No. 515 Placer claim. Although not strictly a feature of the Nellie Bly group, this occurrence should be included in this section. The trench exposure was visited by the examiner and since then, an open cut from which a new tunnel, Nellie Bly No. 4, has been started, was excavated.

The original trench had exposed four siliceous zones or quartz veins within a distance of about 50 feet. A sample of each zone had been taken by the applicant. Their widths and assays, listed from north to south along the trench, are:

| Sample No. | Sample width (inches) | Average oz/T Au | Ag |
|---|---|---|---|
| 3657 | 8 | 0.32 | 2.0 |
| 3660 | 26 | 0.22 | 1.3 |
| 3662 | 20 | 0.26 | 2.0 |
| 932 | 15 | 4.30 | 3.2 |

On strike the vein lines up with the one exposed in the road cut about 600 feet south of the adit on the Janus No. 3 claim and there is very little difference between the altitudes of the respective exposures. For convenience this vein will be called Nellie Bly No. 4. Since the inspection the applicant has excavated an open cut along the vein sampled by 932 to make a face for starting a drift. He has furnished assays of 13 samples taken from the open cut. As nearly as can be determined from the brief description tabulated on his map submitted late in November, three samples were taken from the hanging-wall zone, two samples and one check sample were taken from the siliceous vein zone, and three samples were taken from the footwall zone. Based on these samples, the average widths and grades of each zone are:

| Zone | Width (inches) | Ounces/T Au | Ag |
|---|---|---|---|
| H.W. | 24 | 0.57 | 4.8 |
| Vein | 18 | 0.80 | 6.58 |
| FW. | 50 | 0.13 | 1.1 |

The average grade across the full width of 92 inches is 0.38 ounce gold and 3.14 ounces silver per ton. The hanging wall and vein samples combined indicate a grade of 0.67 ounce gold and 5.56 ounces silver per ton over a width of 42 inches.

One sample was taken across a width of 108 inches which included all three zones, hanging wall, vein, and footwall. It assayed 0.20 ounce gold and 1.6 ounces silver per ton. Two grab samples were taken, one from a 4-ton pile of siliceous material, the other from "siliceous material," source unspecified. Respectively, these samples assayed 0.42 ounce gold and 2.8 ounces silver per ton, and 0.12 ounce gold and 1.1 ounces silver per ton. The remaining sample was taken to test an argillite(?) band 10 feet from the footwall of the vein; it showed only a trace of gold and silver.

Three shipments from the open cut were sent to the Anaconda Sampler. Unfortunately, the applicant was ill advised as to the Sampler size requirements; the result was that much of each shipment

was thrown out as over size. The 194 SDT accepted had an average grade of only 0.12 ounce gold and 1.14 ounces silver per ton and 0.08 percent copper. The sample assays tabulated above probably support the applicant's contention that better values were lost when the oversized material was rejected by the smelter.

This "new" vein, Nellie Bly No. 4, strikes N. 47°-50° W. and dips 60°-65°SW. Easterly from the trench and open cut, along the strike of the vein, the surface rises about 140 feet in a horizontal distance of 500 feet. Therefore, if the vein is projected in this direction along its apparent strike and dip, it will outcrop about 160 feet north of the northwest corner of the Nellie Bly claim, or some 40 feet north of the Winnetka north side line, should the applicant acquire that claim and add it to the land to be included in the application.

Terra Cotta Group - OME-6523

According to Katches and Ingersoll, there are a few old debris-filled pits on the property, none of which expose any vein material although occasionally pieces of quartz may be found in the debris. The locations of the trenches have not been surveyed for mapping nor has any of the quartz been sampled.

Near and southeast of the Terra Cotta claims is the Oro Cache vein which is said to strike N. 10° E., dip 65°-70° NW. and to have produced about $500,000 worth of gold between 1864 and 1880 (Winchell, 1914, p. 163). About 1,000 to 1,500 feet to the southwest is the "Kearsage vein" which is said to strike N. 23° E., dip about 65° NW. and to have produced about $150,000 worth of gold (Winchell, 1914, p. 159 and 163). About 1,500 to 1,600 feet northeasterly from the north end line of the Terra Cotta group is the Ryden Tunnel. The strike and dip of, and production from, the Ryden vein are not known, but a sample of the vein taken by the applicant assayed 1.5 ounces gold and 0.7 ounce silver per ton over a width of 2 inches. Ingersoll has promised to send a map of these workings which will be forwarded when it is received.

Based on the recorded production from the Oro Cache and Kearsage mines and on a southwesterly projection of the Ryden vein, the applicant has driven, from near the southwest corner of the Silver Cable Lode claim, an east-bearing adit for about 400 feet. A sample of iron oxide-stained material from the face when it was at 95 feet assayed 0.76 ounce gold and 0.5 ounce silver over a width of 6 feet, but when the walls were examined after the adit had been driven farther only a few paper-thin seams, slightly iron stained, were found. At 100 feet the applicant took two samples of a siliceous vein that assayed respectively 0.40 ounce gold and 0.4 ounce silver per ton and 0.4 ounce gold and trace silver per ton, each over a width of 6 feet.

At about 270 feet the adit crossed a strong clay-filled seam a few inches wide with some pyrite and limonitic stains. A sample cut across this structure assayed 0.24 ounce gold and 0.2 ounce silver per ton over a width of 4 feet. It is along this structure that the applicant proposes to drift for some 1,500 feet.

The approximate distance from the place at which the Terra Cotta sample was taken and the place where the Ryden Tunnel was sampled is in the order of 4,000 feet. Within this distance there is said to be no trench or outcrop that might confirm this very long projection.

Summary.--On the basis of an inspection plus the maps and assay data furnished by the applicant, the most promising areas in which OME might consider participating in exploration are on the Janus group and the Nellie Bly group and are shown in plate 1.

A vein exposed in the road cut about 600 feet south of the adit on Janus No. 3 and a vein zone exposed in the cuts on No. 515 Placer claim are believed to be one and the same, here called the Nellie Bly No. 4 vein. In the road cut one sample indicates that the vein contains 0.4 ounce gold and 3.4 ounces silver per ton over a width of 60 inches.

The sample locations and material descriptions given by the applicant are not too clear or precise, but they suggest that there may be exposed in a north-south trench on No. 515 Placer claim two siliceous veins about 60 feet apart, between which are two iron-stained siliceous zones.

Based on sample 932 which assayed 4.3 ounces gold and 3.2 ounces silver per ton, over a width of 15 inches, an open cut was excavated from which a drift to the southeast has been started. This work is in a vein and hanging-wall zone 42 inches wide with an average grade, based on six samples, of 0.67 ounce gold and 5.56 ounces silver per ton. Based on the average of the road cut sample (5008), sample 932, and the vein zone in the open cut, Nellie Bly No. 4 vein is apparently a strong mineralized zone having a grade in the order of 1.00 ounce gold and 4.15 ounces silver per ton over a width of about 39 inches.

A second area of potential interest is based on two samples from a trench exposure near the north end of the Janus No. 1 claim. They indicate a vein said to strike about N. 15° W. and dip 55° SW., with an average grade of 1.91 percent copper over an average width of 36 inches.

On the Nellie Bly claims in the area of the old workings and the applicant-driven Tunnel No. 2 there is evidence of at least two closely spaced siliceous veins about where the Nellie Bly vein should be. Grouping samples reported to be of siliceous vein material and those of iron oxide-stained siliceous veins, it appears that the oxidized material is narrower and of higher grade at the tunnel level and the unoxidized siliceous veins are narrower and of higher grade at the surface. The number of samples involved and the average widths and grades are:

Siliceous Vein

| Horizon | No. of samples | Width (inches) | Ounces/T Au | Ag |
|---|---|---|---|---|
| Surface | 8* | 22 | 0.45 | 1.20 |
| No. 2 Tunnel | 4 | 26 | 0.35 | 0.38 |

*Applicant's sample V-1 omitted as erraticly high; 3374 and 439 omitted--doubtful correlation; and D-6 omitted--selected from dump.

Iron oxide-stained wall rock and/or vein

| | | | | |
|---|---|---|---|---|
| Surface | 5* | 41 | 0.18 | 0.47 |
| No. 2 Tunnel | 4** | 28 | 0.28 | 0.96 |

*Applicant's samples TR62, TR57, TR52, TR51, and T1, V-1 ommitted--doubtful correlation.

**Applicant's samples 3608, 3609 omitted--doubtful correlation.

The average widths and grades of the 13 samples of fresh and oxidized material in the vein zone at the surface plus those of the 8 samples of fresh and oxidized material apparently from the same zone at the Tunnel No. 2 level are:

| Horizon | Width (inches) | Ounces/Ton Au | Ag |
|---|---|---|---|
| Surface | 37 | 0.27 | 0.72 |
| No. 2 Tunnel | 27 | 0.31 | 0.68 |
| Average | 32 | 0.29 | 0.70 |

Finally, on the Malta claim in the Nellie Bly group, two samples from one surface pit taken by the applicant indicates a possible easterly striking vein with an average grade of 7.69 percent copper over an average width of 23 inches. Although the applicant has said he is following this vein from a crosscut south from Tunnel No. 3, he neither shows the vein on his maps, nor has he presented any samples from the drift.

Long projections and the lack of surface indications that the projections are sound do not provide much justification for the Government to consider at this time the exploration proposed for the Latchstring and Terra Cotta groups. Surface bulldozing by the applicant, if it successfully supports his projections and if the vein samples show reasonable gold, silver, and/or copper content, might justify further consideration at a later date.

## CONCLUSIONS

It is concluded that exploration of the Nellie Bly No. 4 vein by drifting southeasterly from Tunnel No. 4 offers a very good chance of finding a significant gold-silver ore body. However, before a recommendation for this work could be favorably considered, the applicant should submit documentary evidence (including any necessary Lien and Subordination Agreements) of his right to the Patented No. 515 Placer claim, and should acquire rights to the Winnetka claim and an unnamed claim, shown on his 1" = 1000' map, which overlies the northwestern corner of the Winnetka claim and part of the No. 515 Placer claim.

It is also concluded that the extension of the proposed crosscut on the Janus group from the present face has a better than fair chance of crossing the northwesterly extension of the Nellie Bly No. 4 vein at about 300 feet and the copper-bearing vein (sample 712) at about 800 feet. The copper-bearing float seen near the crosscut portal and at one or two other localities along the road suggest that there is a possibility of the existence of other copper-bearing veins in this area, chiefly because of the distance the float would have had to be carried if it came from the 712 exposure. This, however, is pure speculation, but because it is a possibility, it is concluded that the crosscut would be more exploratory than a drift along the Nellie Bly No. 4 vein from a new portal site.

Because Tunnel No. 2 is only about 150 feet below the lowest known level of the old workings, it is concluded that drifting along the Nellie Bly vein on this level would probably have to be considered as attempting to extend known ore. Also, on the basis of available assay data the indicated target, estimated to be 250 feet long, 150 feet high and 3 feet wide would contain some 8,600 tons of ore with an average grade of 0.29 ounce gold and 0.70 ounce silver per ton and an average value of $11.05 per ton or a total estimated

value of $95,030.00. A few of the samples and the available records of shipments from the old workings suggest that the average value might be increased by careful sorting and/or selective mining, but this would considerably decrease the estimated reserve tonnage. It is therefore concluded, based upon the data available, that the chance of making a significant discovery of gold-silver ore by drifting on the Nellie Bly vein at the Tunnel No. 2 level, is only fair.

Because of the meager factual geologic and mineralogic information available, the existence of the Alder Fracture vein and of the Malta vein is open to question. At this time it can only be concluded that exploration on these veins cannot be recommended. Should the applicant furnish a map showing strike, dip, width and sample locations with assays relative to these veins and a new application based on this data, these possible target areas should be reconsidered.

Finally, it is concluded that there is insufficient evidence available at this time to consider Government participation in the cost of any exploration on either the Terra Cotta or the Latchstring claims. Additional prospecting by the applicant might suggest potentially profitable exploration on the Terra Cotta group and possibly on the Latchstring group.

## RECOMMENDATIONS

Before any contract is considered, it is recommended that the applicant be required to:

1. Furnish suitable documentary evidence of his right to Patented No. 515 Placer claim and any appropriate Lien and Subordination Agreements.

2. Furnish the Leases and Agreements referred to in your letter of December 28, 1965, to Mr. Katches. In his letter of February 16, 1966, next to last paragraph on page 3, Katches points out that the leases you refer to are "on a year-to-year basis, as long as rents or advance royalty payments are paid annually . . . if there is a problem in this form of lease, we could obtain a longer term lease, which would also be subject to termination . . ." We do not know whether this explanation satisfies the Lease requirements, but to date, no Lien and Subordination Agreements have been received.

3. To file on the small triangle of open ground bounded by Nellie Bly, Alder Fraction, and Prescot side lines. Although this small area will not be effected by the recommended project, perhaps, it should be included in the land described in the contract. This recommendation is made only to direct attention to the existence of ground not controlled by the applicant, and is subject to a policy decision.

Only if the applicant furnishes the documentary evidence recommended in items 1 and 2 is the following program recommended:

1. Extend the drift heading southeasterly from the portal of Nellie Bly No. 4 adit for a distance of 500 feet to explore the Nellie Bly No. 4 vein for gold-silver ore bodies.

2. Extend the crosscut heading southwesterly from the portal of the Janus No. 3 adit for a distance of 900 feet to explore for the lateral extension of the Nellie Bly No. 4 vein, the downward extension of the copper-bearing vein (sample 712), and any other veins that may exist in that area. From the two most promising veins exposed in the crosscut, drift northwesterly and/or southeasterly a total of 500 feet on each.

3. To explore for parallel veins and/or ore shoots in the drift walls, at 50-foot intervals in each drift drill long holes up to 50 feet deep into each wall.

## COSTS

In the event that the applicant furnishes as much of the documentation described in items 1, 2, and 3, as may be considered necessary to establish fully his property rights and to protect the Government's royalty rights, the following cost estimate is offered.

## DRIFTING

2,400 feet of drift and/or crosscut, 5'x7' rock section; rate of advance 5 ft/shift, 2 shifts or 10 ft/day; 22 days or 220 ft/month; time required 10.9, say 12 months. Estimated 21 holes/5-ft round.

1. Independent Contracts — None

2. Labor and Supervision (per shift)

| | |
|---|---|
| 2 miners at $22/day | $44.00 |
| 1 helper-trammer operator $20/day | 20.00 |
| ½ geologist-engineer-supervisor at $750/mo or $34/day | 17.00 |
| Total | $81.00 |
| FICA and other insurance at 16.28% | 13.19 |
| | $94.19 |

At 5 feet per shift, $18.838 say $18.84/ft

3. Operating Materials and Supplies (per 5-foot round)

| | |
|---|---|
| Powder, 32 lbs at $28.50/cwt | $ 9.12 |
| Caps, 21 each at $0.06 | 1.26 |
| Fuse, 210 ft at $0.02/ft | 4.20 |
| Air line, 2" w/fittings 2,500 ft at $0.70/ft (less 50% - no salvage) | 1.82 |
| Water line, 1" w/fittings 2,500 ft at $0.35/ft (less 50% - no salvage) | 0.91 |
| Air hose, 1" w/fittings 600 ft at $0.57 ft | 0.71 |
| Water hose, 3/4" w/fittings 600 ft at $0.28/ft | 0.35 |
| Gasoline, 50 gal at $0.375 | 18.75 |
| Oil and grease, 10% of fuel | 1.88 |
| Vent line, 12", 2,400 ft at $1.35/ft (less 50% - no salvage) | 3.38 |
| Rail, 25#, 5,000 ft at $300/T (less 50% - no salvage) | 6.50 |
| Ties, 835 each at $0.40 | 0.70 |
| Fish plates, spikes, etc. at $0.54/ft | 2.70 |
| Water storage tank, 2 each at $30 (less 50% - no salvage) | 0.06 |
| Steel, 1 replaced/300 ft at $18.25 each, 105 ft/round | 6.38 |
| Bits, 1 replaced/300 ft at $4.80 each, 105 ft/round | 1.68 |
| Small tools, repair parts, etc. at $0.50/ft | 2.50 |
| Total | $62.90 |

At 5 feet per round $12.58/ft

4. Operating Equipment (Work will be done in each of 2 adits 900 ft apart)

| Owned by applicant | Present fair market value | Monthly deprec. |
|---|---|---|
| 2 Joy 600 cpf, compressor (new)* | $23,600.00 | $ 393.33 |
| 2 Air receivers (used)* | 300.00 | 5.00 |
| 2 Trammers w/charger pannels and extra batteries (new)* | 47,360.00 | 789.33 |
| 2 Eimco B-12 muckers (used)* | 3,800.00 | 63.33 |
| 2 Air blowers (used)* | 1,000.00 | 16.67 |
| 4 Jacklegs, JR 38C (new)** | 5,120.00 | 85.33 |
| 1 Chain saw (used) | 154.00 | 2.57 |
| 6 Mine cars, 1 T (used)*** | 600.00 | 10.00 |
| Depreciation per month | | $1,365.56 |

At 220 feet per mo, $6.207 say $6.21/ft

*1 at each portal
**2 at each portal
***3 at each portal

5. and 6. None

7. Miscellaneous

Assays

| | | |
|---|---|---|
| 220 channel and car samples assayed for gold and silver at $3.50 each | $770.00 | |
| 150 channel and car samples assayed for gold, silver, copper at $5.00 each | 750.00 | $1,520.00 |
| Total cost/ft for crosscutting and drifting, $37.63 | say | $38.00/ft |

## TIMBERING

Although much of the completed crosscutting shows the ground to stand fairly well, drifts and shears cut by the crosscuts have required considerable timber. For work at the Gold Leaf Claims of B.L.M.W. (OME-6345) it was estimated that about 16 percent of the drifting and crosscutting would require timber. By the end of the project, 450 feet of new opening required 197 feet of timber or about 44 percent. It is therefore recommended that provision be made for 50 percent timbering of crosscuts and drifts. On this assumption 1,200 feet of timbering will require 241 standard sets, 5'x7' in the clear. Two miners and a helper should be able to stand, block and lag 3 sets or 15 ft/shift requiring a total time of 80 shifts at 22 shifts/month or 3.6, say 4 months.

1. Independent Contracts — None

2. Labor and Supervision (per shift)

| | |
|---|---|
| 2 miners at $22/day | $44.00 |
| 1 helper-trammer at $20/day | 20.00 |
| Total | $64.00 |
| FICA and other insurance at 16.28% | 10.42 |
| | $74.42 |

At 15 feet per shift — $4.96/ft

3. Operating Materials and Supplies

| | | | |
|---|---|---|---|
| 482 posts, 8"x8"x7' | = | 17,995 bf | |
| 241 caps, 8"x8"x6'6" | = | 8,355 bf | |
| 480 collar braces 4"x6"x4'4" | = | 4,160 bf | |
| 4,400 lagging 2"12"x5' | = | 44,000 bf | |
| | | 74,510 bf | |
| at $65/M | | $4,843.15 | |
| Plus 10% blocks, wedges, etc. | | 48.43 | $4,891.58 |

At 1,200 feet of timber, $4.076 — say $4.08/ft

4., 5., 6., and 7 — None

Total cost per foot for timber, $9.04 — say $9.00/ft

RECAPITULATION

| | |
|---|---|
| 2,400 ft crosscutting and/or drifting at $38.00/ft | $91,200.00 |
| 1,200 ft crosscut and/or drift timbering at $9.00/ft | 10,800.00 |
| 220 samples assayed for gold and silver at $3.50 | 770.00 |
| 150 samples assayed for gold, silver, and copper at $5.00 | 750.00 |
| 3,000 ft long hole drilling at $1.20/ft | 3,600.00 |
| Estimated total cost of project | $107,120.00 |
| Government's participation at 62½% | $ 66,950.00 |

D. R. MacLaren

D. R. MacLaren

Enclosure
Distribution:
~~OME~~(4) (1 w/plate 1)
USGS(SRO)
Docket
K. L. Wier
MacLaren

December 9, 1966

D. R. MacLaren
Field Officer, OME
Geological Survey
South 157 Howard St.
Spokane, Washington

Dear Mr. MacLaren:

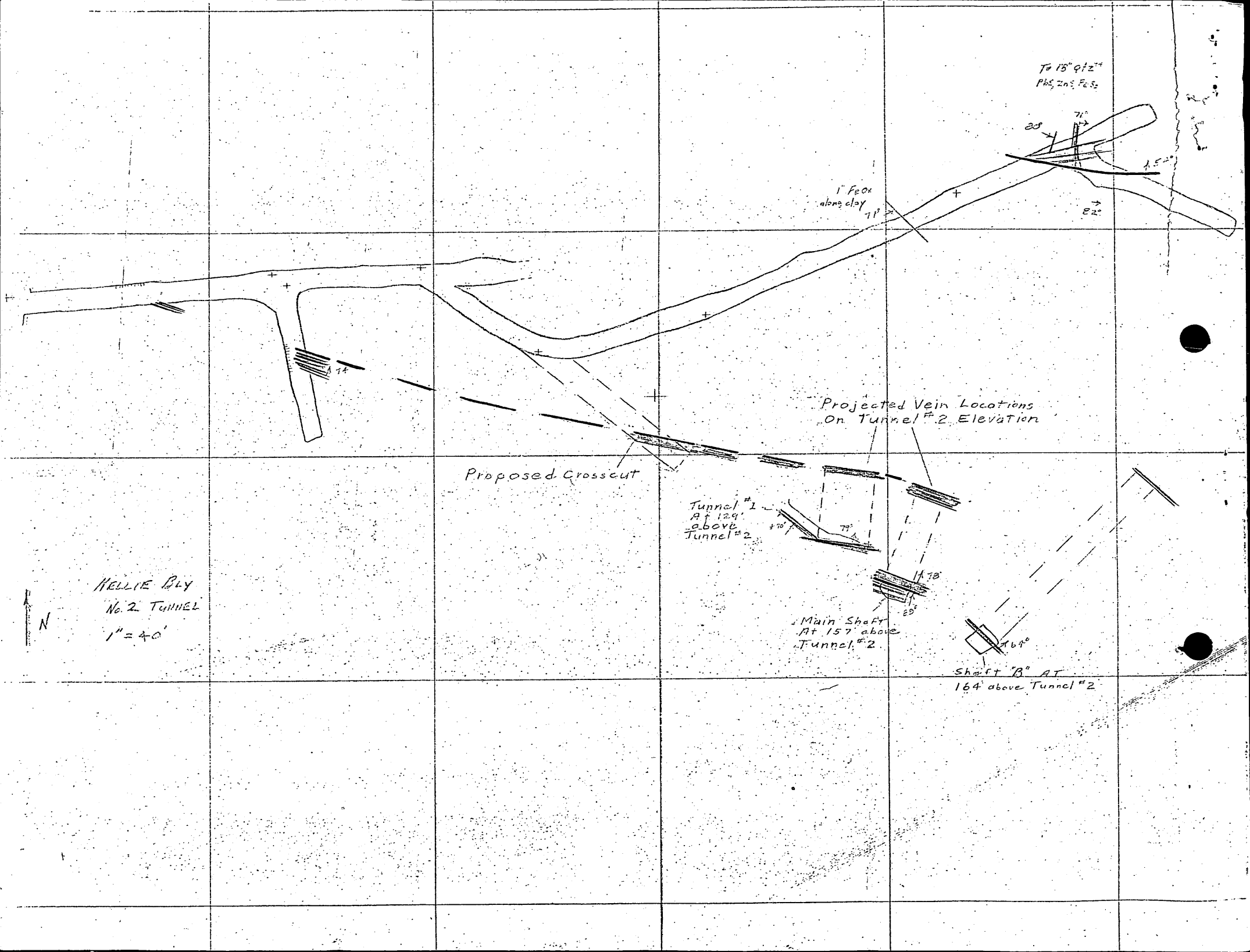
Enclosed are two copies of the work done in Tunnel No. 2 on the Nellie Bly claim. Shown dashed is the proposed crosscut to cut the vein as projected from surface to the tunnel elevation. Mr. Katches has advanced along this proposed strike about 40 feet to date.

Sometime next week I'll send you a map showing the correlation between the Ryden workings and the present Terra Cotta tunnel.

Sincerely,

/s/ Robert G. Ingersoll, Jr.
Robert G. Ingersoll, Jr.

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 14 1966
INITIALS | CODE
1 20.00
710


T= 15" of 2"
Pb S, Zn S, Fe S2
28
71°
15°
82°
1" Fe Ox
along clay
71°
74
Projected Vein Locations
On Tunnel #2 Elevation
Proposed Crosscut
Tunnel #1
At 129'
above
Tunnel #2
70°
79°
78
89°
Main Shaft
At 157' above
Tunnel #2
64°
Shaft "B" AT
164' above Tunnel #2
KELLIE BLY
No. 2 TUNNEL
1" = 40'
N

# JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

Reply to Mac Larson's letter 11/4/66

November 28, 1966

Mr. D. R. MacLaren
Field Officer, OME
Spokane, Washington

Re: OME-6520 (Silver-Gold)
Janus Group
and
OME-6522 (Silver-Gold)
Nellie Bly Group
Janus Mining Company
Madison County, Montana

Dear Mr. MacLaren:

I acknowledge with thanks your letter and sketch map clarifying the main points of our telephone conversation. Enclosed herewith are copies of Mr. Ingersoll's new map as requested along with copies of assay and test lot returns.

The larger of the two triangular areas in question located south of the section line has been filed on and is shown on Ingersoll's map. This lode claim was named Malta No.2, filed for record in the office of the County Clerk and Recorder, in Book 211 Locations, Page 566, locater and claimant Janus Mining Company. In the meantime I will arrange for a transit survey of the other triangular area. After we have established its exact location we will file and name the claim the Triangle Lode. We most appreciate your advice relative to this open ground.

In a meeting with Bob Ingersoll we agree with you that it does appear

Mr. MacLaren:

doubtful, particularlly in light of recent developments of the #932, et al vein, that either vein #3681 or #3684 could be considered as an extension of the Malta vein. Bob feels that more dozer work should be done at or near this location in order to show more clearly the attitude of these veins. This goes along pretty much with your line of thinking per our phone conversation.

We are presently drifting on the #932, et al vein, exposed in the "placer cut" and have named this location, at least for the time being, Nellie Bly No.4 tunnel site. The portal of this tunnel is located approximately where the dozer trench crosscut the vein and we are drifting on the vein towards the Nellie Bly property. Prior to tunnel drifting on the vein we open cut for a distance of 50' on the vein westerly towards the bottom of the gulch from the present portal site. Using a dozer and cat mounted front end loader we mined open cut Test Lots #1, #2 and #3. Using this type of equipment we were capable of handling without benefit of blasting massive solid heavily mineralized quartz portions of the vein, chunks upwards to 4'x5'x8' in size, and being poorly advised shipped a tremendous amount of this oversize to the Anaconda Company Sampler. Consequently, the oversize beyond 12" were not sampled, too large to pass thru their mill crusher, therefore discarded. Based on samplings and assays the metal values are in the solid quartz primarily, therefore Test Lots #1, #2 and #3 are definitely not representative of this vein. Believe me, hereafter properly sized gold and silver ores from our operations is foremost.

We have noted minor strike displacement of the above vein upon advance, favoring a strike more to the south direction. Therefore, with reference to your sketch map the area in the circle labeled "open ground", I am unable to comment on this matter at present, however the displacement is slight.

Ingersoll pretty well shows on his new map the requested information relative to the #712 vein. He advised that the vertical distance from the

Mr. MacLaren:

Janus tunnel level to #712 vein on surface is 356', and by Brunton survey, the Janus tunnel level and Nellie Bly No.4 tunnel level pretty much the same by a few feet more or less. However, if you feel the need of a transit survey on this please advise.

Reference again to your sketch map re: Alder Fraction Vein. Bob Ingersoll comments; that inasmuch as we do not have fresh exposures of this vein the presently caved crosscuts were mapped earlier when they were open, therefore the mineral surveyor had to see something or evidence of a vein in order to legally patent. The old workings on the vein are shown on Ingersoll's previous map.

Hoping the additional information and new map requested meets with your and the departments approval.

Yours very truly,

JANUS MINING COMPANY

/S/ A. J. Katches

A. J. Katches
Vice President

AJK
encl.



NOV 30, 1956

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0006

PHONE 406/442-3770
48 SOUTH MAIN ST.
P. O. BOX 597
HELENA, MONTANA 59601

Helena, Montana, NOV 8 - 1966

ASSAYED FOR

Jumbo Mining Co.

## CONTROL ASSAY

| DESCRIPTION | GOLD OZ. Per Ton | SILVER OZ. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | ARSENIC Per Cent | NICKEL Per Cent | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | $SiO_2$ | |
| Assayer's Lot B-721 | [redacted] 0.20 | 1.8 | | | | | | 76.40 | |

*Gold lot deducted

Charges $ 19.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES PHONE 406/442 0696

PHONE 406 442 0773
46 SOUTH MAIN ST.
P O BOX 837
HELENA MONTANA 59601

Helena, Montana, Nov. 9, 1966

ASSAYED FOR

Janus Mining Co.

## CONTROL ASSAY

| DESCRIPTION | GOLD OZS PER TON | SILVER OZS PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | ARSENIC PER CENT | NICKEL PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| Anaconda Lot B-724 | 0.14 | 1.3 | | | | | | SiO2 74.00 |

*Gold not deducted

Charges $ 19.00

GOODALL BROS

By [signature]

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, OCT 7 - 1966

ASSAYED FOR
Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | INSOL. Per Cent | Per Cent | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| 3696 | 0.72 | 5.1 | | | | | | | |
| 3697 | 0.20 | 1.6 | | | | | | | |
| 3698 | 0.42 | 2.8 | | | | | | | |
| 3699 | 0.82 | 6.6 | | | | | | | |
| 3700 | 0.58 | 4.5 | | | | | | | |
| 5001 | 0.12 | 1.1 | | | | | | | |

*Gold not deducted

Charges $ 21.00

GOODALL BROS.

By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, OCT 11 1966

ASSAYED FOR
Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. Per Ton | SILVER Ozs. Per Ton | WET LEAD Per Cent | COPPER Per Cent | ZINC Per Cent | INSOL. Per Cent | $SiO_2$ Per Cent | Per Cent | |
|---|---|---|---|---|---|---|---|---|---|
| 3696 | | | | | | | 81.00 | | |
| 3697 | | | | | | | 83.24 | | |
| 3698 | | | | | | | 85.56 | | |
| 3700 | | | | | | | 86.76 | | |
| 5001 | | | | | | | 79.60 | | |

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, NOV 2 - 1966

ASSAYED FOR
Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT Silica | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 5002 | 0.22 | 1.8 | | | | | | |
| 5003 | 0.86 | 9.0 | | | | | 84.84 | |
| 5004 | 0.06 | 0.5 | | | | | 76.00 | |
| 5005 | 0.04 | 0.4 | | | | | 83.08 | |
| 5006 | 0.20 | 1.6 | | | | | 85.80 | |
| 5007 | Trace | Trace | | | | | | |

*Gold not deducted

Charges $ 45.00
6.00 Bucking charge

GOODALL BROS.
By Horace Hand

# GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, NOV 7 - 1966

ASSAYED FOR
Janus Mining Co.

**HAND SAMPLE**

| DESCRIPTION | GOLD Ozs. PER TON | SILVER Ozs. PER TON | WET LEAD PER CENT | COPPER PER CENT | ZINC PER CENT | INSOL. PER CENT | PER CENT | PER CENT |
|---|---|---|---|---|---|---|---|---|
| 5008 | 0.40 | 3.4 | | | | | | |
| 5009 | Trace | Trace | | | | | | |
| 5010 | 0.86 | 7.8 | | | | | | |
| 5011 | Trace | 0.2 | | | | | | |

181-P-15645—5M—11-2-64

# The Anaconda Company, Anaconda Sampler

RECEIVED FROM Janus Mining Company

ADDRESS Virginia City, Montana — ANACONDA, MONTANA, 59711 — Nov. 7, 1966

MINE Nellie Bly Group Mines Ore ~~(Test Lot No. 1)~~ — SMELTER LOT B - 721 ( October a/c )

| CAR NUMBER | WEIGHTS Pounds Gross | WEIGHTS Per Cent Water | WEIGHTS Pounds Dry | ASSAYS Per Cent Copper | ASSAYS Ounces Silver | ASSAYS Ounces Gold | TREATMENT CHARGE Dollars | PRICE PER TON Dollars | VALUE Dollars | Draft No. |
|---|---|---|---|---|---|---|---|---|---|---|
| NP 50461 | 126,880 | 4.55 | 121,107 | .08 | 1.49 | .166 | 2.42 | 3.30 | $ 199.83 | |
| BAP Ry Freight | | | | | | | | | 158.60 | |
| Proceeds to: Metals Bank and Trust Co. of Butte: a/c Janus Mining Company | | | | | | | | | $ 41.23 | |

SILICA 76.0
ALUMINA 6.3
IRON 3.4
CaO 3.2

COPY

| PAYMENT FOR METALS | | |
|---|---|---|
| Copper @ Less 3½c | | |
| Silver less 1 oz @ 128.900¢ Less 6c | | .60 |
| Gold less .01 oz @ $ 32.81825 | | 5.12 |
| Date of Quotations | 10/21/66 | |

| TREATMENT | |
|---|---|
| BASE | 3.75 |
| Add—12c for each 1% Iron | .41 |
| Add—10% of sum of metal payments in excess of $15.00 | |
| Deduct—2.5c for each 1% Silica in excess of Alumina | 1.74 |
| NET TREATMENT | 2.42 |

An extra charge of $5.00 made for sampling all lots under ten tons.

Rates subject to change without notice.

Extensions and footings correct.

The Anaconda Co., Anaconda Sampler

By E. M. Boyce

181-P-15645—5M—11-2-64

# The Anaconda Company, Anaconda Sampler

RECEIVED FROM Janus Mining Company

ADDRESS Virginia City, Montana

ANACONDA, MONTANA, 59711 November 11, 1966

MINE Nellie Bly Group Ore-(Test Lot No. 2) SMELTER LOT B-724 (November a/c)

| CAR NUMBER | WEIGHTS | | | ASSAYS | | | TREATMENT CHARGE | PRICE PER TON | VALUE | Draft No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pounds Gross | Per Cent Water | Pounds Dry | Per Cent Copper | Ounces Silver | Ounces Gold | Dollars | Dollars | Dollars | |
| NP 50499 | 132,340 | 6.12 | 124,241 | .07 | 1.10 | .098 | 2.51 | .50 | $ 31.06 | |
| BAP Ry Freight | | | | ( $ 165.43) | | | | | 31.06 | |

SILICA 73.6
ALUMINA 7.1
IRON 3.5
CaO 3.4

COPY

| PAYMENT FOR METALS | | | |
|---|---|---|---|
| Copper | @ | Less 3½c | |
| Silver less 1 oz @128.900¢ | | Less 6c | .12 |
| Gold less .01 oz @ $ 32.81825 | | | 2.89 |
| Date of Quotations | 10/28/66 | | |

| TREATMENT | |
|---|---|
| BASE | 3.75 |
| Add—12c for each 1% Iron | .42 |
| Add—10% of sum of metal payments in excess of $15.00 | - |
| Deduct—2.5c for each 1% Silica in excess of Alumina | 1.66 |
| NET TREATMENT | 2.51 |

An extra charge of $5.00 made for sampling all lots under ten tons.

Rates subject to change without notice.

Extensions and footings correct.

The Anaconda Co., Anaconda Sampler

By E. N. Boyce

181-P-15645—5M—11-2-64

# The Anaconda Company, Anaconda Sampler

RECEIVED FROM Janus Mining Company

ADDRESS Virginia City, Montana

ANACONDA, MONTANA, 59711 November 15, 1966

MINE Nellis Bly Group Ore-(Test Lot No. 3) SMELTER LOT B-727 (November a/c)

| | CAR NUMBER | WEIGHTS | | | ASSAYS | | | TREATMENT CHARGE | PRICE PER TON | VALUE | Draft No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pounds Gross | Per Cent Water | Pounds Dry | Per Cent Copper | Ounces Silver | Ounces Gold | Dollars | Dollars | Dollars | |
| 1 | DRGW 73175 | 150,300 | 5.08 | 142,665 | .10 | .89 | .110 | 2.44 | .84 | $ 59.92 | |
| | BAP Ry Freight | | | @ (187.88) | | | | | | $ 59.92 | |

SILICA 74.2
ALUMINA 6.8
IRON 3.2
CaO 3.6

COPY

| PAYMENT FOR METALS | | | | TREATMENT | |
|---|---|---|---|---|---|
| Copper | @ | Less 3½c | | BASE | 3.75 |
| Silver | @ | Less 6c | | Add—12c for each 1% Iron | .38 |
| Gold less .01 oz @ | $ 32.81825 | | 3.28 | Add—10% of sum of metal payments in excess of $15.00 | |
| Date of Quotations | 10/28/66 | | | Deduct—2.5c for each 1% Silica in excess of Alumina | 1.69 |
| | | | | NET TREATMENT - - - - - - - - - - | 2.44 |

An extra charge of $5.00 made for sampling all lots under ten tons.

Rates subject to change without notice.

Extensions and footings correct.

The Anaconda Co., Anaconda Sampler

By J. M. Boyle

MME FORM
REV. 2-59

REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION

| | DATE | INITIALS |
|---|---|---|
| TO: Chief, OME | 12/9/66 | |

1. Re: OME-6522 (Silver-Gold)
2. Janus Mining Co.
3. Nellie Bly Group
   Madison County, Montana
   and
4. OME-6523 (Silver-Gold
   Terra Cotta Group
   Madison County, Montana
5. D. R. Maclaren, Fld. Officer, Reg. 1

FROM: [illegible]

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 12 1966
WILLIAMSTON

FOR: Check items for action desired

| | | |
|---|---|---|
| ___ Action | ___ Reply for signature of | ___ Surname |
| ___ Approval | ___ Investigate | ___ Signature |
| ___ Comment | ___ Recommendations | ___ File |
| ___ Conference | ___ Rewrite | |
| ___ Instructions | X Your information | |

REMARKS: To be added to Applicant's applications.

M56300-62

INT.-DUP. SEC., WASH., D.C.

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

OME 6522

December 7, 1966

Mr. D. R. MacLaren
Field Officer, OME
Spokane, Washington

Dear Mr. MacLaren:

With reference to our phone conversation yesterday, wish to advise that Bob Ingersoll will forward directly to you copies of McAleer's map, as described to you on the phone, relative to present Nellie Bly No.2 tunnel developments. And enclosed herewith a copy of McAleer's letter wherein he refers to the above.

Mr. Ingersoll also agreed to send you copies of map showing the Ryden Property workings as set out in the Anaconda Report, which I am hoping will further support our Terra Cotta Application.

By the way, Mr. Joseph F. McAleer is a staff geologist with The Anaconda Company and working with Bob Ingersoll from time to time on our project.

Yours very truly,

/s/ A. J. Katches
A. J. Katches

AJK
encl.

DEC 9

Mr. Joseph F. McAleer
2742 Princeton
Butte, Montana

Mr. J. A. Katches

Dear Jay:

I have sketched a composite map of the shafts in [illegible] to tunnel No. 2, on the enclosed print. From these shafts [illegible] tunnel No. 1, I have projected the vein downward to the elevation of tunnel No. 2. These projections appear as dashed veins on the sketch. As you can see, the currently advancing crosscut is nowhere near the vein. Therefore, I suggest that you abandon this heading. Instead, I recommend that you extend the second crosscut for 60 feet in a S 56° E direction. This recommendation is labeled "proposed crosscut" in the enclosed sketch. This work should cut the vein structure and allow you to drift on it toward the shafts.

I will give Bob Ingersoll a copy of this sketch so that he may transfer this information to the original tracing at a later date.

Sincerely,

Joseph F. McAleer

Joseph F. McAleer

OME

GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
November 4, 1966

GEOLOGICAL SURVEY
RECEIVED
NOV 7 1966
TITLES CODE

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana 59755

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana
and
OME-6522 (Silver-Gold)
Janus Mining Company
(Nellie Bly Group)
Madison County, Montana

Dear Mr. Katches:

As you did not have the respective maps before you during our telephone conversation of November 3, 1966, I have prepared the enclosed sketch by matching up as well as I could the sketches of the Janus and Nellie Bly claim groups. I hope this will clarify the main points of our discussion. Only that part of the sketch north of the section line is pertinent to the additional information that should be available for incorporation in my report relative to the Janus and Nellie Bly applications. I have included parts of the two groups south of the section line because they show a couple of other points.

South of the section line are two triangular areas that do not appear to be covered by any claim. I mentioned this during my visit with you in September, and show the areas here because they could have a nuisance value should someone file on them and because, if they are in fact open ground, they could delay further processing of the Nellie Bly application.

Also, south of the section line it appears doubtful that either vein #3681 or #3684 could be considered as an extension of the Malta vein unless there is an offsetting fault, possibly in the stream bed. Such a fault, if it were striking in a northerly direction would account for the apparent offset of the #932, et al., veins from the indicated location of the Alder vein. This is just a thought that Bob Ingersoll might comment on.

North of the section line, I have indicated the two areas that should be shown in more detail on your new sketch. The claim boundaries and

that portion of the road between the Janus portal and the new cut will be helpful for orientation purposes. The area in the circle labeled "open ground" may have to be added to the land depending upon the true strike and dip of the #932, et al., veins exposed in the "placer cut." To arrive at the requested altitudes of #712 trench, the Janus portal and the exposures on either side of the placer claim, it will not be necessary to run Brunton and tape or transit surveys; altimeter readings will be close enough for our purpose which is to make sections indicating where the Janus tunnel may be expected to cut the structures.

This additional information shown on a sketch is requested because, after talking to Ingersoll and you, it appears possible that something might be worked out to explore this vein. However, the request for this information is not to be considered in any way as even suggesting that an OME contract will be forthcoming.

Sincerely yours,

D. R. MacLaren
Field Officer, OME
Region I

Enclosure

DRMacLaren/mls

cc: OME (2)

Director's Reading File

6522

# JANUS MINING COMPANY

VIRGINIA CITY, MONTANA

October 22, 1966

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

I acknowledge with many thanks your prompt reply to my letter of October 3, 1966, and am most pleased to learn that your Field Officer, Mr. MacLaren will contact us regarding the subject applications.

Sincerely yours,

JANUS MINING COMPANY

A. J. Katches

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| | | |
| 10/10 | | 110 |
| 10/10/66 | Kirkemo | 120 |
| | | |
| | | |
| | | 220 |
| | | |
| | | |
| | | |

Memorandum

OCT 1 0 1966

To: Field Officer, OME Region I

FROM: Chief, Office of Minerals Exploration

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

The subject applications are being sent to you for review and possible field examinations, if deemed necessary.

Copies of the supplemental information (maps and assay certificates) furnished this office have been sent to you according to the applicant. Other necessary information as to geologically favorable targets, cost estimates, equipment to be used, Operator's interest in the land (Leases and Lien and Subordination Agreements) referred to in our letter of December 28, 1965, to the Applicant, and discussed with Mr. Katches, have not been received. However, further discussions between you and Mr. Katches and Mr. R. G. Ingersoll may bring forth the required information.

We believe that if the properties warrant further exploration, work should be concentrated on one or two of the more favorable targets, and that efforts should not be dissipated by spreading the work over several different properties.

If your recommendations are favorable, the required information for preparing contracts should be obtained. It would be preferable in this case, that all the exploration be covered by one contract and not under several contracts, if possible.

FRANK E. JOHNSON

Frank E. Johnson

cc: Director's reading file
Division file
Economic Geology file
OME file (4 dockets)
OME reading file
OME-130

FEJohnson/bih 10/10/66

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| | | |
| 10/10 | | 110 |
| 10/10/66 | Kirkemo | 120 |
| | | |
| | | |
| | | 220 |
| | | |
| | | |
| | | |

OCT 1 0 1966

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

Thank you for your letter of October 3, 1966, submitting supplemental information relating to the subject application.

We note that you have sent a set of the maps and assay certificates enclosed in your letter to Mr. D. R. MacLaren. Although you have not furnished the other information necessary to process your applications, mentioned in our letter to you of December 28, 1965, and discussed with you on visits to my office, we are referring these applications to Mr. MacLaren for possible field examinations of the properties involved. Mr. MacLaren will contact you in this regard and discuss with you any additional information that may be required.

Sincerely yours,

FRANK E JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's reading file
Division file
Economic Geology file
OME file (4 dockets)
OME reading file
OME Region I

FEJohnson/bih 10/10/66

23263

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

October 3, 1966

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, 25 D. C.

RE: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

I respectfully submit herewith supplemental information as requested relating to the subject applications. Two sets or copies are enclosed for your office and one set of the information has been forwarded to Mr. D. R. Maclaren, per his request.

I am hoping the assembled factual data meets with your approval as projected on Mr. R. G. Ingersoll's maps along with copies of the assay certificates.

Sincerely yours,

JANUS MINING COMPANY

A. J. Katches

Rec'd. 10/6/66
Enclosures left side

CC: Mr. D. R. Maclaren
(One set of maps and
assay certificates)

GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
September 30, 1966

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Consultations were held with A. M. Katches, Manager, and Robert Ingersoll, ACM Geologist, Consultant, in Virginia City, Montana, and on each of the subject properties September 19 and 20, 1966. Ken Weir, Geological Survey, was also present and most helpful in getting across to Katches precisely what map and sample data we require in order to proceed with processing his applications. Most of the information is available in Katches' or Ingersoll's files, but due to the requirements of his work for ACM, Ingersoll has not transferred it to the respective maps. He plans to devote the next 2 or 3 weekends to this work and the preparation of geologic maps of 4 new tunnels that have already been started.

It is recommended that the applicant be given reasonable additional time to submit this data.

D. R. MacLaren

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 8/2 | Kirkham | 120 |
| | | 110 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |
| | | |

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

To date, we have not received an answer to our letters of February 23 and May 4, 1966, to you concerning the subject applications.

We wish to cooperate with you in allowing ample time to furnish the information necessary to processing your applicati ns; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the requested data within thirty days from the date of this letter, we shall consider the applications as having been withdrawn.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
4 OME dockets
OME Region I
OME Reading File

GLAult/s 8-2-66

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| | | 110 |
| | | 120 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |
| | | |

MAY 4 1966

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

On February 23, 1966, we wrote you outlining certain information which was necessary to continue the processing of your application. To date, we have not had a reply to our letter. Will you please inform us of your plans regarding the application. If you have decided not to pursue it further, will you please so inform us.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
Region I

Dockets, OME-6520, 6521, 6522, 6523

MMerrithew/mm (5/3/66)

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 2/21 | Johnson | 110 |
| | Selfridge | 120 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |
| | | |

Mr. A. J. Katchas
Janus Mining Company
Virginia City, Montana

Re: GMR-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

GMR-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

GMR-6522 (Silver-Gold)
Janus Mining Company
Willie Bly Group
Madison County, Montana

GMR-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katchas:

This is with reference to your letter of February 16, 1966, delivered in person by you, in reply to our letter of December 26, 1965, and our discussions on February 15, 16, and 17 relating to the subject applications.

As I informed you during our discussions, the information in your letter is too general in nature for our purposes and does not furnish any factual data to support your proposals.

As no information indicating favorable geologic targets or assay data were submitted with your applications, we suggested in our letter of December 28, 1965, that the shallow surface workings on the properties to be explored be cleaned out, and representative samples taken of the mineralization and assayed. It was not our intention that such work should be done on neighboring properties or that additional property be acquired.

23263

In our discussions you stated that you had done considerable surface work on your properties and had assay data on samples of the mineralization exposed by this work. You further stated that you had not furnished this information because you believed Mr. R. G. Ingersoll would make other similar information available to the Field Officer if he visited Butte, Montana. As I explained to you, however, we should be furnished factual geologic and assay data on the properties in order to properly evaluate your proposals and determine if a field examination is warranted. This could be done by showing the general geology on a copy of the claim map submitted with each application. The veins known to occur on these claims should be traced on these maps, indicating the approximate locations of any surface cuts, pits, or trenches exposing the veins. The strike and dip readings of the veins at each exposure should also be shown on the maps. Also, the locations, widths, and assays for each sample taken of the veins exposed should be indicated on the maps. Assays should be supported by copies of assay certificates.

Upon receipt of this information which you stated as being available, we will be in a position to promptly continue the processing of your applications.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc to: Director's Reading File
Division File
Economic Geology File
OME Dockets 6520, 6521, 6522, and 6523
OME Region I w/cy incoming letter
OME Reading File

FEJohnson/bih/gla 2-21-66

# JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

Personal

February 16, 1966

Mr. Frank E. Johnson
Chief, Office of Mineral Exploration
United States Department of the Interior
Washington 25, D. C.

RE OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson

Thank you for the opportunity of meeting with you in your office, at which time we discussed thoroughly your letter of December 28, 1965, wherein additional information was requested in order for your office to proceed with our applications. I respectfully submit Mr. R. G. Ingersoll's comments relative to the information requested, as follows:

The following comments are written in answer to some of the requests submitted to the Janus Mining Company on December 23, 1965, by the Office of Minerals Exploration, Geological Survey, United States Department of the Interior.

The four silver exploration applications submitted by the Janus Mining Company (Government numbers OME-6520 through OME-6523) are for financial assistance for work to be done in four areas along the Alder Creek drainage. The exploratory crosscutting and drifting to be done in each area is designed to expose at depth structures which, near or at the surface, were ore-bearing.

Specifically, the Latchstring Group (OME 6521) work is designed to explore along strike and at depth the mineralized structure which the Bartlett property mined. At one point in the exploitation of the Bartlett claim, geologists from The Anaconda Company were given permission to map and sample the underground workings (1936). The Anaconda Company was not involved in any work in the area. Shipments of ore from the Bartlett structure were made over a period of time to the Anaconda Reduction Works, Anaconda, Montana. These records of tonnage and grade are on file and are probably accessible.

Incomplete figures cited in the original application show over 8700 tons of ore shipped. On the basis of these ore shipments, the exploratory work north of the Bartlett claim was advised. The old Bartlett underground workings are presently inaccessible to mapping or sampling. The amount of development along the structure and the areal location of stoping involved in the tonnages shipped is unknown and, in all likelihood, no accurate picture of the development and mining was made.

Cost figures for re-opening vary greatly and are dependent upon many factors, among them being the amount of sluffed rock to be moved and the amount of support--rock bolts, timber, spiling--needed. Frequently the cost of re-opening approaches that of new development. In the case of the Bartlett claim as it pertains to the Latchstring Group, this property is not even owned by the Janus Mining Company, and therefore is not available for examination of re-opening. This exploration program was laid out to prospect the structure beyond the Bartlett claim line, and ownership of the Bartlett claim was not deemed warranted for the venture. With actual shipment information available, an expensive claim purchase and a re-opening and sampling program would only verify the existence of structure and ore.

Development work designed to crosscut and drift structures of the Nellie Bly Group of claims (OME-6522) is primarily based on the near-surface exposures of the mineralized structure along with the Nellie Bly claim is located. Shallow shafts together with adits and some stoping have exposed the structure for several hundred feet laterally. These old workings are partly accessible and show strong clays and persistent quartz and iron oxide mineralization. Dip and strike of the Nellie Bly mineralized fissure as determined from the old workings are shown on the plan and cross-section of the proposed exploratory work. The geologic target for this group of claims is 300 to 400 feet below the near-surface underground workings on this structure. This distance is relatively shallow. The Easton-Pacific mine located in Brown's Gulch immediately west of Alder Gulch was in ore at a depth between 700 and 800 feet as reported in the U.S. Bureau of Mines Information Circular No. 6972, dated November, 1937.

February 16, 1966

Exploratory underground work on the Terra Cotta Group of claims (OME-6523) is designed to crosscut and drift the extension of a structure which, several hundred feet north, has been exposed by a number of prospect pits and several shallow adits and drifts. Here, as in the case of the Bartlett structure, the claims on which exploration has taken place are not owned by the Janus Mining Company. At the time of application to OME, ownership along the entire length of a structure was not considered necessary to obtain favorable consideration for financial assistance. The geologic target on the Terra Cotta Group is one persistent structure, a close neighbor to an ore-bearing fissure, the Ore Cache vein, which reportedly produced a half million dollars. Ore or oreshoots along the Terra Cotta structure cannot be pin-pointed either as to location or size. The exploration program as laid out is to drift the structure for 1500 feet in search of expected ore shoots.

Proposed work on the Janus Group of claims (OME-6520) is purely exploratory. All of the work will be carried out on the west side of Alder Gulch, across from the Nellie Bly Group of claims. The geologic targets are the faulted segments or extensions of ore-bearing veins found in the Nellie Bly Group claims. The proposed work is immediately across the gulch because structures mapped farther up Alder Gulch show very little offset from one side of the gulch to the other.

To fulfill the demands of OME, a large expenditure of money will have to be made to buy additional claims and re-open hundreds of feet of underground workings. However, some weight should be given by that office to the ore shipments cited in the original applications (certainly proof of ore-bearing structures) and to the descriptions of various properties and production figures in the Virginia City Mining District as written up in U. S. Geological Survey Bulletin No. 574 and U. S. Bureau of Mines Information Circular No. 6972.

Not true a year ago

Reference is made to your request for a change in the mineral leases to cover at least a ten year period, rather than a year to year basis. Wish to advise that present leases are continued on a year to year basis as long as rents or advance royalty payments are paid annually. Therefore, we feel that these leases are valid for an indefinite period, which could be ten years or longer. However, if there is a problem in this form of lease, we could obtain a longer term lease, which would also be subject to cancellation by the property owners if the annual payments were not made. The Lein and Subordination Agreements can be obtained and submitted at such time as evidence of exploration contracts can be secured.

Because of the more than reasonable probability of the significant discovery of ore, we have therefore since the date of filing the applications in your office November 23, 1965, proceeded with the proposed development work as outlined in our applications on the Janus Group, OME-6520; Nellie Bly Group OME-6522; and the Terra Cotta Group OME-6523.

February 16, 1966

Wish to advise our progress as follows: Janus Group; 115 feet of tunnel completed, with timbering; Nellie Bly Group; 127 feet of tunnel completed with timbering; Terra Cotta Group; 36 feet of tunnel completed with timbering. We are proceeding with the development work of the above properties continuously on a single shift basis. Work on the Latchstring Group OMC-6521 will begin in the near future. We consider work performed to date on these properties most beneficial and information obtained most valuable, therefore, supporting fugure development. I might add that all properties and workings are accessible for examination.

We would appreciate an early reply and favorable consideration for financial assistance and help from the Office of Minerals Exploration.

Sincerely yours,

JANUS MINING COMPANY

A. J. Katches

MME Form 7
(2/63)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 12/28 | Johnson | 110 |
| | Gelfenbiger | 120 |
| | | 220 |
| | | 120M |
| | | |
| | | |
| | | |
| | | |
| | | |

DEC 28 1973

Janus Mining Company

Virginia City, Montana

Re: OME-6520 (Gold-Silver)
Janus Mining Company
Janus Group
Madison County, Montana

- - -

OME-6521 (Gold-Silver)
Janus Mining Company
Latchstring Group
Madison County, Montana

- - -

OME-6522 (Gold-Silver)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

- - -

OME-6523 (Gold-Silver)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Gentlemen:

A careful review has been made of each of the four applications for financial assistance to explore four separate groups of mining claims in Madison County, Montana, submitted by the Janus Mining Company.

These reviews reveal that the four applications are more or less of the same nature, with proposals to crosscut to and drift along projected extensions of veins at depth. The proposals lack evidence of specific favorable geologic target areas. Although we were informed that the Anaconda Company has performed considerable work in the area and that Mr. R. G. Ingersoll, on the staff of Anaconda, would make available to the OME representative pertinent information in the Anaconda files at Butte to support the applications, there are no geological or mineralogical data in the applications to support the proposals. Also, it is indicated that the Applicant has performed no work on the properties and that most of the old workings are inaccessible.

23263

In order for us to continue processing the applications, it will be necessary that we have additional information. Structures should be exposed by cleaning out old surface workings. Evidence of the existence of faults and veins, giving dips and strikes, as well as assay data, showing the locations of representative samples taken from vein exposures on the properties, with their widths and assay values, are required. The information submitted indicates that the dollar value of the mineralization found in the area is principally in gold. Also, evidence to support the expectation of finding ore at depth is not included.

In the cost estimates submitted, lists of equipment to be used on the proposed projects are included and charged off to the respective projects. Under the OME program, if an operator owns the equipment, the fair market value of the equipment less salvage is used in estimating costs. As a charge against the exploration project, this value is amortized on a five-year basis and 1/60 of the value allowed for each month of actual use. If the equipment is rented, a rental allowance of a comparable amount is used. Consequently, the cost per foot for equipment used on a project would be considerably less than estimated in the applications.

Some of the properties are held under leases on a year-to-year basis. It would be necessary to change these leases to cover at least a ten-year period before exploration contracts could be executed. Also, Lien and Subordination Agreements would be required from all of the parties who have been assigned royalties to secure operating capital in the event a contract could be granted.

It is necessary that we have sufficient information to warrant trips and examinations of the properties. Unless the information and the vein exposures are made accessible for investigation, there would be no point in having an OME representative examine the projects or visit Butte to examine the pertinent data in the Anaconda files.

Upon receipt of the information requested, we will be in a position to promptly proceed with these applications. This request for additional information should not be construed that contracts will be granted.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

FEJohnson/gla (12-28-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
OME Region I

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

(Dated at Washington, D.C.)
November 24, 1965

Mr. Frank Johnson, Director
Office of Minerals Exploration
Department of the Interior
Washington, D. C.

Dear Mr. Johnson:

Relative to our meeting in your office on November 23rd, wish to advise that in addition to the information and data contained in our Applications for Financial Assistance in Minerals Exploration, Mr. R. G. Ingersoll, our Consulting Geologist on the staff of the Anaconda Co., Butte, Montana, did advise that he is willing to meet in his office with persons officially related to the Office of Minerals Exploration, at which time he would make available pertinent information contained in the Anaconda files, such as geological reports, evaluations, maps, and such other information which will, in furtherance, support information contained in applications.

Yours truly,

A. J. Katches

November 23, 1965

Janus Mining Company
Virginia City, Montana

Subject: OME - 6522
Nellie Bly Group

Gentlemen:

Your application for exploration assistance, dated November 18, 1965, submitted to our office at Washington, D. C., has been assigned Docket No. OME-6522.

Please identify all future correspondence relating to your application by this docket number.

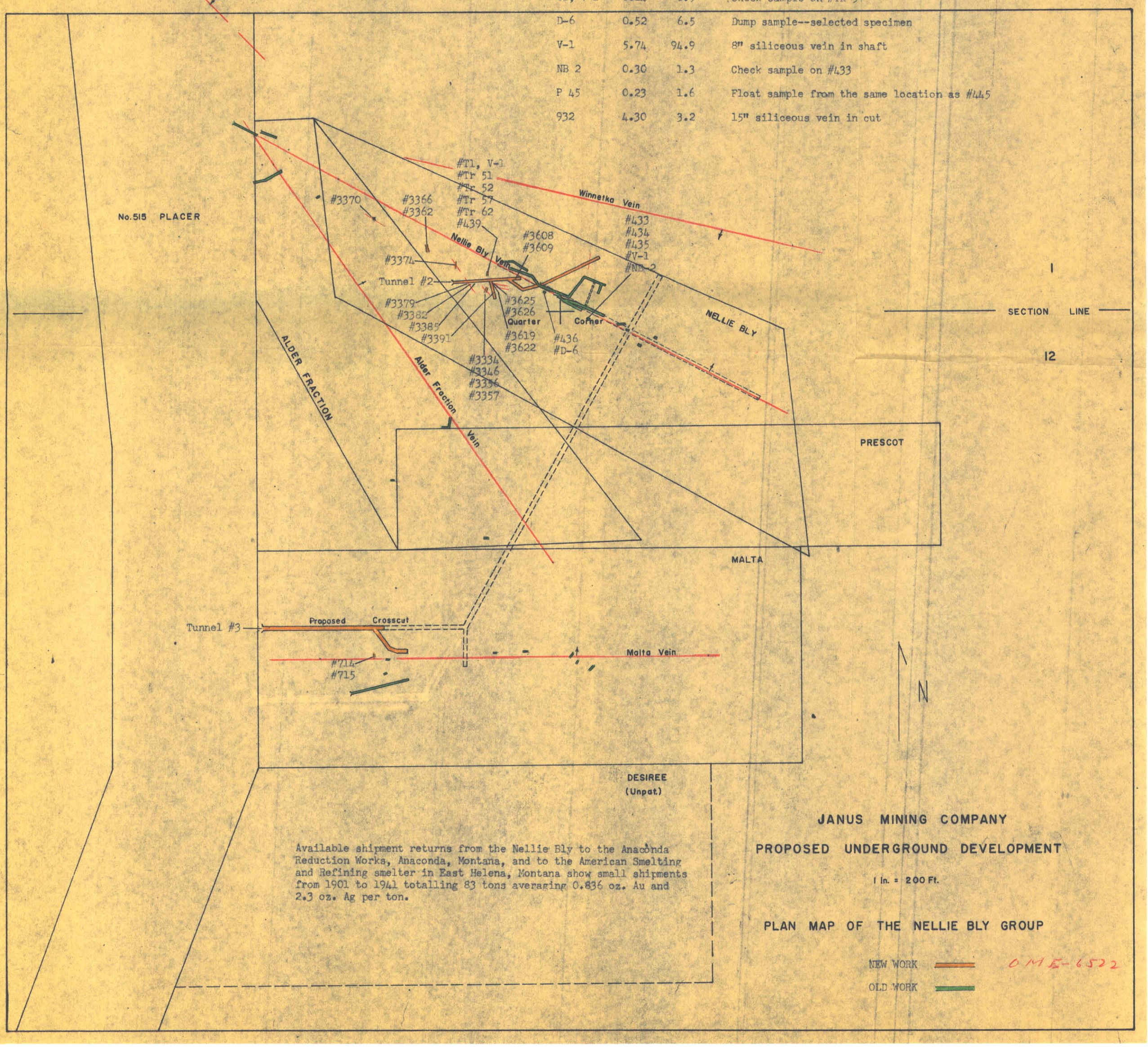
Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region I with
copy of application

| Sample No. | Oz. Au | Oz. Ag | Remarks |
|---|---|---|---|
| 3657 | 0.32 | 2.0 | 8" wide siliceous vein in cut |
| 3660 | 0.22 | 1.3 | 26" wide siliceous vein, iron stained, in cut |
| 3662 | 0.26 | 2.0 | 20" wide siliceous vein, iron stained, in cut |
| 3622 | 0.20 | Tr | 31" wide siliceous vein in No. 2 tunnel |
| 3625 | 0.16 | 0.5 | 2' wide iron stained structure in No. 2 tunnel |
| 3626 | 0.14 | 0.5 | Check sample on #3625 |
| 3619 | 0.16 | 1.1 | Same location as #3622 |
| 3608 | 0.12 | 0.5 | 6' wide breast sample, iron stained |
| 3609 | 0.14 | 0.7 | Check sample on #3608 |
| 3391 | 0.58 | 0.3 | 17" wide siliceous vein in No. 2 tunnel |
| 3385 | 0.24 | 0.2 | 29" wide iron stained structure in No. 2 tunnel |
| 3379 | 0.46 | 2.2 | 3' wide iron stained structure in No. 2 tunnel |
| 3382 | 0.64 | Tr | 2' wide siliceous vein in No. 2 tunnel |
| 3374 | 0.12 | 1.5 | 1' wide siliceous vein in cut. Also 1.2% Pb |
| 3346 | 0.36 | 1.1 | 9" wide siliceous vein in cut |

| Sample No. | Oz. Au | Oz. Ag | Remarks |
|---|---|---|---|
| 3362 | 0.10 | 0.1 | 4' wide weathered vein in cut |
| 3356 | 0.22 | 0.4 | 18" siliceous vein in cut |
| 3357 | 1.18 | 0.4 | 1' wide siliceous vein in cut |
| 3334 | 0.26 | 0.4 | 3' wide iron stained formation in cut |
| 3366 | 0.24 | 0.2 | Check sample on #3362 |
| 3370 | 0.20 | Tr | 30" wide weathered vein in cut |
| 714 | Tr | 0.4 | 10" wide weathered vein in cut. Also 17.4% Cu |
| 715 | Tr | Tr | 8' wide weathered vein in cut. Also 5.0% Cu |
| 433 | 0.26 | 1.0 | 4' wide siliceous vein in shaft |
| 434 | 0.32 | 2.5 | 8" wide siliceous vein in H.W. in shaft |
| 435 | 0.14 | 1.6 | 3'-4' wide H.W. gouge in shaft |
| 436 | 1.88 | 2.8 | 20" wide siliceous vein in shaft |
| 439 | 0.16 | 0.7 | 2' wide siliceous vein in cut |
| 445 | 0.20 | 2.2 | Float sample from the same location as #3657 |
| TR 57 | 0.12 | 0.5 | 24' wide iron stained structure in cut |
| TR 62 | 0.10 | 0.1 | 26" wide iron stained structure in cut |
| TR 51 | 0.12 | 0.1 | Check sample on #TR 62 |
| TR 52 | 0.16 | 0.5 | Check sample on #TR 62 |
| T1, V-1 | 0.14 | 0.9 | Check sample on #TR 57 |
| D-6 | 0.52 | 6.5 | Dump sample--selected specimen |
| V-1 | 5.74 | 94.9 | 8" siliceous vein in shaft |
| NB 2 | 0.30 | 1.3 | Check sample on #433 |
| P 45 | 0.23 | 1.6 | Float sample from the same location as #445 |
| 932 | 4.30 | 3.2 | 15" siliceous vein in cut |




Available shipment returns from the Nellie Bly to the Anaconda Reduction Works, Anaconda, Montana, and to the American Smelting and Refining smelter in East Helena, Montana show small shipments from 1901 to 1941 totalling 83 tons averaging 0.836 oz. Au and 2.3 oz. Ag per ton.

JANUS MINING COMPANY

PROPOSED UNDERGROUND DEVELOPMENT

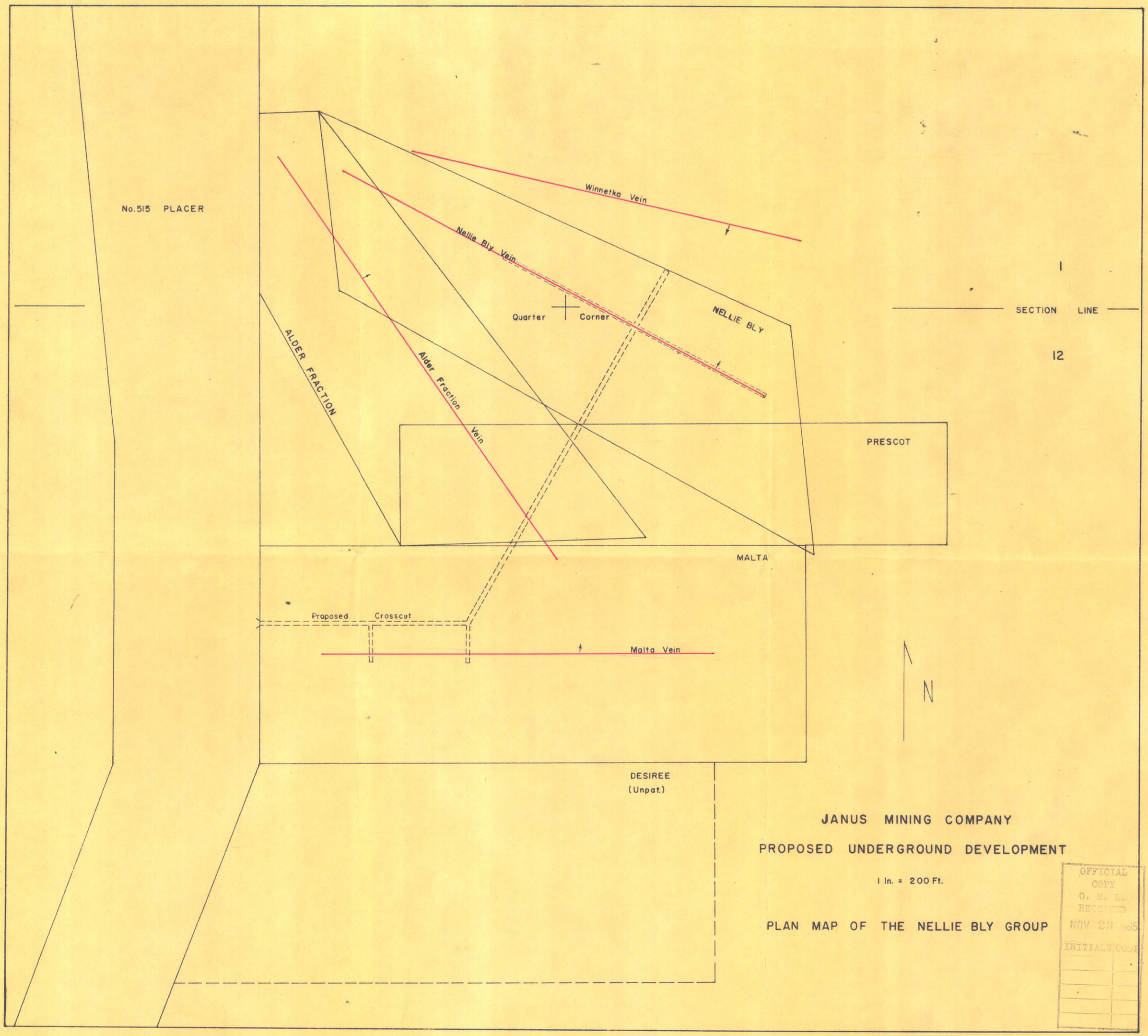
1 In. = 200 Ft.

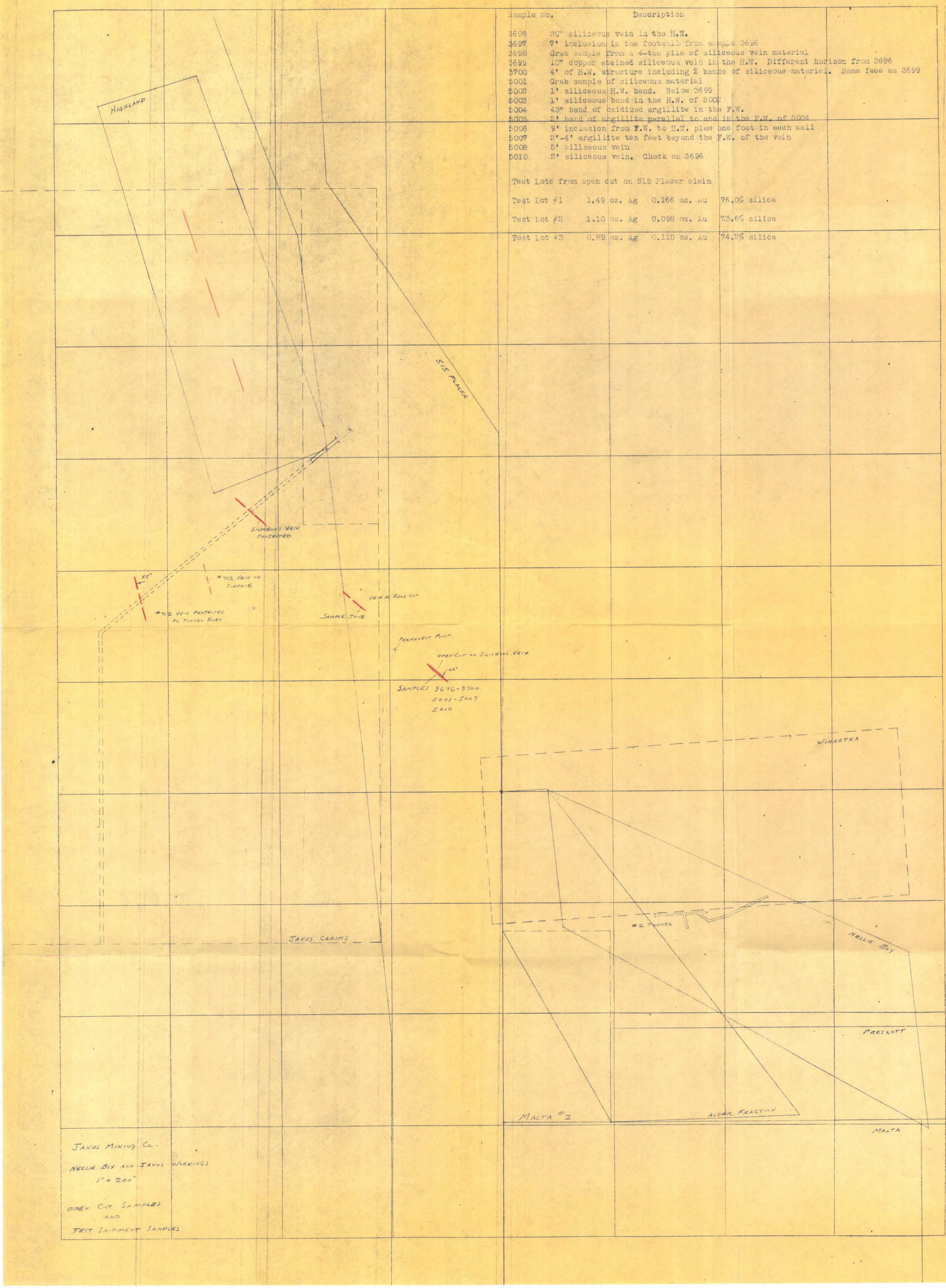
PLAN MAP OF THE NELLIE BLY GROUP

NEW WORK

OLD WORK

OME-6522

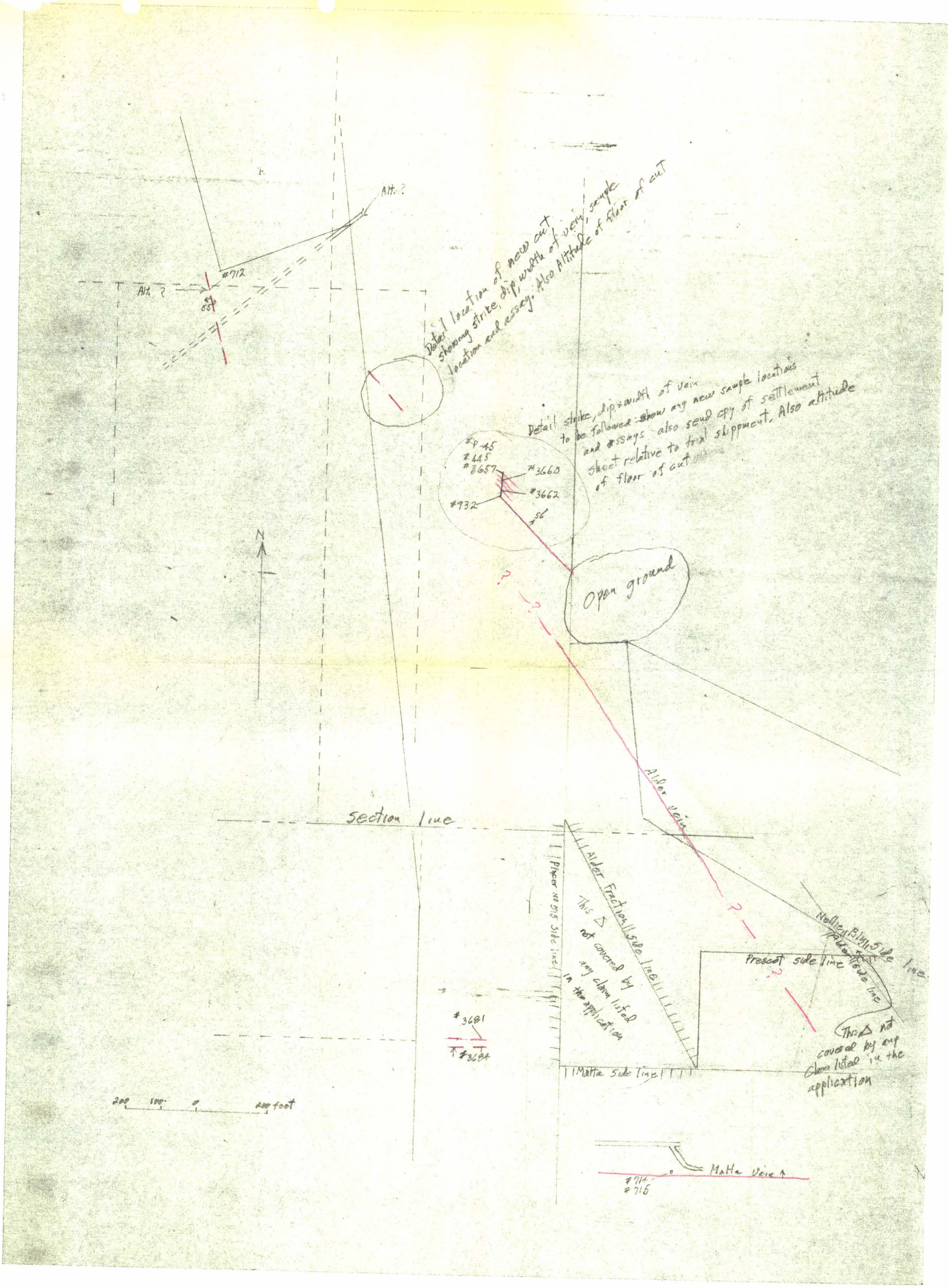

No. 515 PLACER
Winnetka Vein
Nellie Bly Vein
1
SECTION LINE
12
Quarter Corner
NELLIE BLY
ALDER FRACTION
Alder Fraction Vein
PRESCOT
MALTA
Proposed Crosscut
Malta Vein
N
DESIREE
(Unpat.)
JANUS MINING COMPANY
PROPOSED UNDERGROUND DEVELOPMENT
1 In. = 200 Ft.
PLAN MAP OF THE NELLIE BLY GROUP
OFFICIAL COPY
O. M. L.
RECEIVED
NOV 23 1965
INITIALS CODE




| Sample No. | Description |
|---|---|
| 3696 | 30" siliceous vein in the H.W. |
| 3697 | 7' inclusion in the footwall from sample 3696 |
| 3698 | Grab sample from a 4-ton pile of siliceous vein material |
| 3699 | 10" copper stained siliceous vein in the H.W. Different horizon from 3696 |
| 3700 | 4' of H.W. structure including 2 bands of siliceous material. Same face as 3699 |
| 5001 | Grab sample of siliceous material |
| 5002 | 1' siliceous H.W. band. Below 3699 |
| 5003 | 1' siliceous band in the H.W. of 5002 |
| 5004 | 43" band of oxidized argillite in the F.W. |
| 5005 | 2' band of argillite parallel to and in the F.W. of 5004 |
| 5006 | 9' inclusion from F.W. to H.W. plus one foot in each wall |
| 5007 | 2'-4' argillite ten feet beyond the F.W. of the vein |
| 5008 | 5' siliceous vein |
| 5010 | 2' siliceous vein. Check on 3696 |

Test Lots from open cut on 515 Placer claim

| | | | |
|---|---|---|---|
| Test Lot #1 | 1.49 oz. Ag | 0.166 oz. Au | 76.0% silica |
| Test Lot #2 | 1.10 oz. Ag | 0.098 oz. Au | 73.6% silica |
| Test Lot #3 | 0.89 oz. Ag | 0.110 oz. Au | 74.2% silica |


Alt. ?
#712
Alt. ?
Detail location of new cut showing strike, dip, width of vein, sample location and assay. Also Altitude of floor of cut
Detail strike, dip, width of vein to be followed - show any new sample locations and assays also send copy of settlement sheet relative to trial shipment. Also altitude of floor of cut
#445
#445
#3657
#3660
#3662
#932
56
N
Open ground
Alder vein
Section line
Alder Fraction side line
Pincer No 515 Side line
This △ not covered by any claim listed in the application
Nellie Bill Side line
Prescot side line
Alder side line
This △ not covered by any claim listed in the application
#3681
#3684
Matta Side line
200 100 0 200 feet
Matta Vein
#714
#716